

Annexure-II

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan-786602, Assam, India
E-mail: material@oilindia.in

INVITATION FOR BID
LOCAL COMPETITIVE BID

OIL INDIA LIMITED invites Local Competitive Bid (LCB) through its e-procurement portal <https://etender.srm.oilindia.in/irj/portal> for the following items:

Tender No	Bid Closing/ Opening Date	Item & Qty
SDI0424P16 DT: 02.03.2016 (SINGLE STAGE TWO BID SYSTEM)	21.04.2016	SUPPLY OF MANUAL OPERATED HIGH VOLUME LONG RANGE MONITORS (HVLRM)

Tender fee (Non-refundable): Rs 1,000.00; Bid Closing/Opening Time: **(11 Hrs.) IST/(14 Hrs.) IST**; Period of sale of documents **till One week prior to bid closing date..** The complete bid documents and details for purchasing bid documents, participation in E-tenders are available on OIL's e-procurement portal <https://etender.srm.oilindia.in/irj/portal> as well as OIL's website www.oil-india.com.

NOTE: All addenda, Corrigenda, time extension etc. to the tenders will be hosted on above website and e- portal only and no separate notification shall be issued in the press. Bidders should regularly visit above website and e-portal to keep themselves updated.



OIL INDIA LIMITED
(A Government of India Enterprises)
PO : Duliajan – 786602
Assam (India)

TELEPHONE NO. (91-374) 2808719

FAX NO: (91-374) 2800533

Email: ranjanbarman@oilindia.in ; erp_mm@oilindia.in

FORWARDING LETTER

Tender No. : SDI0424P16 DT: 02.03.2016

Tender Fee : Rs 1,000.00

Bid Security Amount : Applicable

Bidding Type : SINGLE STAGE TWO BID SYSTEM

Bid Closing on : As mentioned in the e-portal

Bid Opening on : -do-

Performance Security : Applicable

Integrity Pact : Applicable

OIL invites Bids for **SUPPLY OF MANUAL OPERATED HIGH VOLUME LONG RANGE MONITORS (HVLRM) OF CAPACITY 1000 GPM – QTY = 17 NOS** through its e-Procurement site under **SINGLE STAGE TWO BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area - > Tender Documents

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.

The tender will be governed by:

- a) For technical support on various matters viz. Online registration of vendors, Resetting of Passwords, submission of online bids etc, vendors should contact OIL's ERP MM Deptt at following: Tel Nos = 0374-2807171 , 0374-2807192. Email id = erp_mm@oilindia.in.

- b) OIL's office timings are as below:

	Time (in IST)
Monday – Friday	07.00 AM to 11.00 AM; 12.30 PM to 03.30 PM
Saturday	07.00 AM to 11.00 AM
Sunday and Holidays	Closed

Vendors should contact OIL officials at above timings only.

- c) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders.

- d) Technical specifications and Quantity as per **Annexure – 1A**.
- e) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.
- f) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.
- g) All corrigenda, addenda, amendments, time extension, clarifications etc. To the tender will be hoisted on OIL's website (www.oil-india.com) and in the e-portal (<https://etenders.srm.oilindia.in/irj/portal>) only and no separate notification shall be issued in the press. Prospective bidders are requested to regularly visit the website and e-portal to keep themselves updated.
- h) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).
- i) Bidder are advised to fill up the Technical bid check list (**Annexure EEE**) and Response sheet (**Annexure FFF**) given in MS excel format in Technical RFx -> External Area -> Tender Documents. The above filled up document to be uploaded in the **Technical RFX Response**.

Special Note:

1.0 General Qualification Criteria:

In addition to the general BRC/BEC, following criteria on Bidders' Experience and their financial capabilities shall be considered (**documentary evidence to be provided along with the bid in Technical RFx -> External Area -> Tender Documents**) as on the Bid Closing Date:

Criteria	Complied / Not Complied.
	Documentary evidence submitted / not submitted
a) Bidder should have experience of successfully executing single similar order of Rs 35.70 Lakhs during last 3 years.	
b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than Rs 119.00 Lakhs .	

Note: Documentary evidence in respect of the above should be submitted in the form of copies of relevant Purchase Orders along with copies of any of the documents in respect of satisfactory execution of each of those Purchase Orders, such as – (i) Satisfactory Inspection Report (OR) (ii) Satisfactory Supply Completion / Installation Report (OR) (iii) Consignee Receipted Delivery Challans (OR) (iv) Central Excise Gate Pass / Tax , Invoices issued under relevant rules of

Central Excise / VAT (OR) (v) any other documentary evidence that can substantiate the satisfactory execution of each of the purchase orders cited above. For Annual financial turnover enclose the audited Annual Reports or balance sheet certified by a chartered accountant.

2.0 Vendors having OIL's User ID & password shall purchase bid documents on-line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e-portal).

Vendors who do not have OIL's User ID & password shall obtain User ID & password through online vendor registration system in e-portal and can subsequently purchase bid documents through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e-portal).

Alternatively application showing full address/email address with Tender Fee (Non-refundable) of Rs. 1,000.00 in favour of M/s Oil India Limited and payable at Duliajan is to be sent to Head-Materials, Oil India Limited, P.O. Duliajan, Assam-786602. Application shall be accepted only upto one week prior to the Bid closing date (or as amended in e-portal). The envelope containing the application for participation should clearly indicate "REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO ...". for easy identification and timely issue of user ID and password. On receipt of requisite tender fee, USER_ID and initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL's e- Procurement portal. No physical tender documents will be provided. Details of NIT can be viewed using "Guest Login" provided in the e-Procurement portal. The link to e-Procurement portal has been also provided through OIL's web site www.oil-india.com.

NOTE:

PSUs and MSE units are provided tender documents Free of Cost (as per govt guidelines), however they have to apply to OIL's designated office to issue the tender documents one week prior to the Bid closing date (or as amended in e-portal).

3.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidders are required to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic format in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

3.1 Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the Technical RFx Response-> User - > Technical Bid only. The "TECHNO-COMMERCIAL UNPRICED BID" shall contain all techno-commercial details except the prices. Please note that no price details should be uploaded in Technical RFx Response.

3.2 The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. The prices of the items should be quoted in "Conditions Tab". Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments".

3.3 A screen shot in this regard is given below. Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in [Annexure-CCC](#).

Display RFx Response:

Edit | Print Preview | Technical RFx Response | Close | Withdraw | Verify

RFx Response Number 60006452 RFx Number TEST2 Status Submitted
 RFx Owner WIPRO_TEST1 Total Value 0.00 INR RFx Response Version 1

RFx Information | Items | Notes and Attachments | Conditions

Basic Data | Questions

Event Parameters

Currency: Indian Rupee

Detailed Price Information: Price with Conditions

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

Service and Delivery Information

Incoterms

and Statistics

Created On

Created By

Last Processed On

Last Processed By

▼ Partners and Delivery Information

Details | Send E-Mail | Call | Clear

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

Go to this Tab “Technical RFx Response” for Uploading “Techno-commercial Unpriced Bid”.

Go to this Tab “Notes and Attachments” for Uploading “Priced Bid” files.

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

Edit RFx Response:

Submit | Read Only | Print Preview | Check | Technical RFx Response | Close | Save | Verify signature

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

RFx Information | Items | Notes and Attachments | Conditions | Summary

▼ Notes

Add | Clear

Assigned To	Category	Text Preview
The table does not contain any data		

▼ Attachments

Sign Attachment | Add Attachment | Edit Description | Versioning | Delete | Create Qualification Profile

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

Bid on “EDIT” Mode

Area for uploading Techno-Commercial Unpriced Bid*

Area for uploading Priced Bid**

Note :

* The “Techno-Commercial Unpriced Bid” shall contain all techno-commercial details **except the prices**.

** The “Price bid” must contain the price schedule and the bidder’s commercial terms and conditions. For uploading Price Bid, first click on Sign Attachment, a browser window will open, select the file from the PC and click on Sign to sign the Sign. On Signing a new file with extension .SSIG will be created. Close that window. Next click on Add Attachment, a browser window will open, select the .SSIG signed file from the PC and name the file under Description, Assigned to General Data and click on OK to save the File.

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 **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) Detailed Catalogue (if any)
- c) Any other document required to be submitted in original as per tender requirement

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

5.0 Benefits to Micro & Small Enterprises (MSEs) as per OIL's Public Procurement Policy for Micro and Small Enterprises (MSEs) shall be given. Bidders are requested to go through ANNEXURE – I of General Terms and Conditions for E- PROCUREMENT LCB TENDERS (MM/LOCAL/E-01/2005) for more details. MSE bidders are exempted from submission of Tender Fees and Bid Security/Earnest Money provided they are registered for the items they intend to quote.

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 NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

7.0 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.

8.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.

9.0 **SINGLE STAGE TWO BID SYSTEM** shall be followed for this tender and only the PRICED-BIDS of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

10.0 a) **The Integrity Pact is applicable against this tender. Therefore, please submit the Integrity Pact document duly signed along with your quotation as per BRC. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure DDD of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be submitted 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.**

b) **The name of the OIL's Independent External Monitors at present are as under:**

**SHRI RAJIV MATHUR, IPS (Retd.)
Former Director, IB, Govt. of India,
e-Mail ID : rajivmathur23@gmail.com**

11.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-CCC**. **However, if any of the Clauses of the Bid Rejection Criteria /**

Bid Evaluation Criteria (as per **Annexure-CCC**) contradict the Clauses of the tender and / or “General Terms & Conditions” as per Booklet No. MM/LOCAL/E-01/2005 for E-procurement (LCB Tenders) elsewhere, those in the BEC / BRC shall prevail.

- 12.0 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 toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
- 13.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.
- 14.0 If Bank Guarantee is submitted towards ‘Bid Security’, then bidders have to ensure that the Bank Guarantee issuing bank indicate the name and detailed address (including e-mail) of their higher office from where confirmation towards genuineness of the Bank Guarantee can be obtained.

NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

Yours Faithfully

**Sd-
(R BARMAN)
SR MANAGER MATERIALS (IP)
FOR : HEAD-MATERIALS**

Tender No & Date: SDI0424P16 DT: 02.03.2016**BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)**

The following BRC/BEC will govern the evaluation of the bids received against this tender. Bids that do not comply with stipulated BRC/BEC in full will be treated as non responsive and such bids shall prima-facie be rejected. Bid evaluation will be done only for those bids that pass through the “Bid Rejection Criteria” as stipulated in this document.

Other terms and conditions of the enquiry shall be as per General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BRC / BEC) contradict the Clauses of the tender or MM/LOCAL/E-01/2005 elsewhere, those in the BRC / BEC shall prevail.

<u>Criteria</u>	Complied / Not Complied. (Remarks if any)
<p>1.0 BID REJECTION CRITERIA (BRC):</p> <p>The bid shall conform generally to the specifications, terms and conditions given in this document. Notwithstanding the general conformity of the bids to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.</p> <p>A) TECHNICAL:</p> <p>a) The bidder shall be in the business of manufacturing/ supplying of similar items as indicated in the NIT in last five (5) years to be reckoned from the original Bid Closing Date of this tender. For similar items please refer clause no. (b)</p> <p>b) The bidder shall have the credential of successfully executing one similar order for not less than 50% of tender quantity of the item in preceding five (5) years to be reckoned from the original Bid Closing Date of this tender. "Similar Order" means "Supply of UL listed/FM approved variable flow manually operated HVLRM of capacity 1000 GPM or more with foam induction system as indicated in the NIT".</p> <p>c) Documentary evidence in support of the bidder's past supply shall be submitted along with the bid in the form of Purchase Orders/Inspection release note/Completion certificate issued by the client with detail Specification of the supplied items.</p> <p>d) In case the bidder is an authorized dealer/agent of the OEM to market the said product, the dealer/agent can submit the bid on behalf of the OEM having experience qualification mentioned in Para (b) above, the Bidder shall submit a valid copy of authorization certificate issued by the OEM with back up Warranty and Guarantee from the OEM to quote against this tender. Such authority letter</p>	

should be valid for the entire period of execution of the order. Documentary evidence of the OEM meeting the qualification criteria as in Para (b) above shall also be submitted along with the bid.

e) Vendor shall provide certified approved drawings / documents of manually operated HVLRM of same type & capacity authenticated by UL/FM as documentary evidence along with the bid.

B) COMMERCIAL:

i) Validity of the bid shall be minimum 120 days from the Bid Closing Date.

ii) Bid security:

The bid must be accompanied by Bid Security of **Rs 1,19,000.00** in OIL's prescribed format as Bank Guarantee or a Bank Draft/Cashier cheque in favour of OIL. The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender. **The Bank Guarantee towards Bid Security shall be valid for 10 months from Bid closing date. (i.e. upto 21.02.2017).**

Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.

If bid security in ORIGINAL of above mentioned Amount and Validity is not received or paid online within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration.

For exemption for submission of Bid Security, please refer Clause No. 8.8 of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders.

The format of Bank Guarantee towards Bid Security (Annexure – VII) has been amended to Annexure – VII (Revised) and bidders should submit Bank Guarantee towards Bid Security as per Annexure – VII (Revised) only.

iii) Bids are invited under “Single Stage Two Bid System”. Bidders have to submit both the “Techno-commercial Unpriced Bids” and “Priced Bids” 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 works and Technical specification of the tender and the priced bid as per the online Commercial bid format. For details of submission procedure, please refer relevant para of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders. Any offer not complying with the above shall be rejected straightway.

iv) Performance Security:

Successful bidder will be required to furnish a Performance Security @10% of the order value. The Performance Security must be valid for 12 months from the date of commissioning or 18 months from the date of despatch whichever concludes earlier. Bidder must confirm the same in their bid. Offers not complying with this clause will be rejected.

The validity requirement of Performance Security is assuming despatch within stipulated delivery period and confirmation to all terms and conditions of order. In case of any delay in despatch or non-confirmation to all terms and conditions of order, validity of the Performance Security is to be extended suitably as advised by OIL.

v) *The Bank Guarantee should be allowed to be encashed at all branches within India.*

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) All the Bids must be Digitally Signed using “Class 3” digital certificate with Organisation’s name (*e-commerce application*) 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 with Organisation’s Name” digital certificate, will be rejected.

ix) Technical RFx Response folder is meant for Technical bid only. Therefore, No price should be given in Technical RFx Response folder, otherwise the offer will be rejected.

x) Price should be maintained in the “online price schedule” only. The price submitted other than the “online price schedule” shall not be considered.

xi). Integrity Pact :

OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure DDD of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL’s competent signatory. The proforma has to be submitted 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.

xii). 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.**
- (e) Average Annual Turnover of a bidder lower than the average Annual turnover mentioned in the Tender.**

2.0 BID EVALUATION CRITERIA (BEC)

The bids conforming to the terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria as well as verification of original of any or all documents/ documentary evidences pertaining to BRC, will be considered for further evaluation as per the Bid Evaluation Criteria given below.

A) TECHNICAL:

1. The manufactured product should be strictly as per OIL's tender specification.

B) COMMERCIAL:

- i). To evaluate the inter-se-ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.
- ii) Priced bids of only those bidders will be opened whose offers are found technically acceptable. The technically acceptable bidders will be informed before opening of the "priced bid".
- iii). 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 toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

-----XXXX-----

TECHNICAL SPECIFICATIONS WITH QUANTITY**Tender No & Date: SDI0424P16 DT: 02.03.2016**

	Complied / Not Complied. (Remarks if any)
<p><u>ITEM NO. 10</u></p> <p><u>Supply of Manual Operated High Volume Long Range Monitors (HVLRM) of capacity 1000 GPM (Qty: 17 nos.)</u></p> <p>Manually operated High Volume Long Range Monitor (HVLRM) with Foam Induction Mechanism.</p> <p>Capacity : Variable flow of 1000, 750 and 500 GPM with single Nozzle.</p> <p>Type : Non-aspirating</p> <p><u>Details Specification of HVLRM is mentioned in the attached documents has been prepared by M/s EIL, who is Project Management Consultant (PMC) for OIL against this Project.</u></p>	

NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

SPECIFICATION FOR HIGH VOLUME LONG RANGE MONITOR

PROJECT : Up gradation of fire protection system of LPG
Recovery Plant & LPG Filling Plant in OIL Duliajan

OWNER : OIL INDIA LIMITED

JOB NO : A806

A	24.09.15	ISSUED FOR COMMENTS	AC	VG	RBB
Rev. No	Date	Purpose	Prepared by	Checked by	Approved by

Abbreviations:

FM	FACTORY MUTUAL
IS	INDIAN STANDARD
kg/cm ²	KILOGRAM / SQUARE CENTIMETER
m	METER
mm	MILLIMETER
m ³	CUBIC METER
NB	NOMINAL BORE
SS	STAINLESS STEEL
UL	UNDERWRITERS LABORATORY
GPM	GALLONS (US) PER MINUTE
"	INCH

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1.0 SCOPE

This specification covers the general requirements of Design & Manufacture, Material, Workmanship and Finish, Anticorrosive Treatment, Performance requirements, Testing, Commissioning, Painting, Accessories, Marking, Inspection, Supply and Delivery of UL/FM listed/approved Water Cum Foam Monitor of Capacity 1000 GPM (US)(Variable Type with flow 500-750-1000GPM)

2.0 DESIGN AND CONSTRUCTION

2.1 Design and Construction of Water cum Foam Monitor shall be as per Data Sheet of Water cum Foam Monitor attached with Bid.

2.2 Monitor shall have provisions for following manual operations:

- Up/down motion
- Horizontal rotation
- Movement of nozzle for jet and fog arrangement

The monitor shall have traversing mechanism to give 360 deg. in either direction in horizontal plane and +90 deg. & -45 deg. in vertical plane through geared unit with worm and worm wheel operated by separate hand wheel for horizontal and vertical rotation. The arrangement shall be such that monitor shall be self-locking type and operated by a single person.

Swivel joints shall be provided both for horizontal and vertical rotation.

A pressure gauge to indicate the inlet pressure shall be fitted in the monitor body near inlet of nozzle.

Nozzle shall be Non-Aspirating Aqua Foam type nozzle as listed in the data sheet of Water Cum Foam Monitor attached with the Bid/Requisition.

2.3 Foam feeding shall be by aqua powered foam inductor, (Jet Ratio Controller Pump). The induction system shall be listed by UL/ FM. Water operated foam proportioner shall be suitable for feeding foam concentrate from minimum distance of 60 meters. The inlet and outlet of proportioner shall be provided with 63-mm male and female coupling. Foam induction rate shall be 3% for 1000GPM. Control valve shall be provided for selecting the induction of 500,750 or 1000 GPM. Foam induction hose of total 60m length shall be supplied along with end couplings of SS304. Foam pick up for JRCP shall be through 3m long pick up tube.

The foam compound shall be AFFF/Multipurpose AFFF (AR-AFFF). The nozzle shall give a foam expansion of 1:3 to 1:4. Nozzle shall be able to give a fog up to 160°.

2.4 Near the base flange a drain connection shall be provided with a 15 mm (½") NB drain valve at the end of pipe. The drain pipe shall be long enough to drain water away from the base flange.

2.5 The nozzle shall be able to discharge the rated capacity and shall meet the horizontal and vertical throw range (as specified in data sheet) at a pressure of 7.0 kg/cm² at the mating/mounting flange.

3.0 MATERIAL

All materials for different parts of Water cum Foam Monitor shall be as per the data sheet enclosed with Bid document.

Foam solution induction hose shall be reinforced rubber lined to IS: 636.

Pick up-Tube shall be made from PVC hose reinforced with high tensile steel wire helix manufactured as per ASTM D1785 schedule 80. Pick up-tube shall be 3m long with dip pipe made of SS304.

4.0 HYDRAULIC PERFORMANCE

4.1 Water cum Foam Monitor shall be capable of discharging 500/750/1000 GPM (US) (at base flange of monitor) of water at 7 kg/cm² pressure by field adjustments.

4.2 **Performance of water cum foam monitor at 500GPM at 7Kg/cm² pressure in still air condition shall be:**

Horizontal Range	-	50m for water, nozzle angle at 30° from horizontal plane
	-	45m for foam, nozzle angle at 30° from horizontal plane
Vertical Range	-	15m for water, nozzle angle at 45° from horizontal plane
	-	13m for foam, nozzle angle at 45° from horizontal plane

Performance of water cum foam monitor at 750GPM at 7Kg/cm² pressure in still air condition shall be:

Horizontal Range	-	55m for water, nozzle angle at 30° from horizontal plane
	-	50m for foam, nozzle angle at 30° from horizontal plane
Vertical Range	-	17m for water, nozzle angle at 45° from horizontal plane
	-	15m for foam, nozzle angle at 45° from horizontal plane

Performance of water cum foam monitor at 1000GPM at 7Kg/cm² pressure in still air condition shall be:

Horizontal Range	-	60m for water, nozzle angle at 30° from horizontal plane
	-	55m for foam, nozzle angle at 30° from horizontal plane

Vertical Range	-	20m for water, nozzle angle at 45° from horizontal plane
	-	18m for foam, nozzle angle at 45° from horizontal plane

4.3 *Vendor shall furnish the projectile curve for the monitor supplied showing horizontal and vertical throw for foam and water at angles 30, 45, 60, 75 degrees nozzle angle from horizontal plane for records.*

4.4 Aqueous Film Forming Foam (AFFF) shall be used for testing of foam monitor for horizontal and vertical throws as specified above.

4.5 Flow through monitor is total flow plus induction rate. The total flow shall be within +5%/-0 %. The induction rate shall 3 % to 4 % for 3 % induction requirement.

5.0 WORKMANSHIP AND FINISH

5.1 All the parts shall have good workmanship and finish. All burrs and sharp edges shall be removed. Particularly Water Way, Foam Way and Nozzle shall have smooth finish.

5.2 None of the joints shall be connected with permanent adhesive. No adhesive shall be used to arrest leaks or locking joint movement in threaded joints.

6.0 ANTICORROSIVE TREATMENT AND PAINTING

6.1 All metallic components (except stainless steel) subject to direct water or foam contact shall be hot dip galvanized, to a minimum thickness of 0.012mm. The thickness of coating shall be measured as per IS: 3203. Surface preparation and protective coating for external surface shall be as per standard specification no.6-79-0020.

6.2 Monitor's steel parts shall be painted with fire red color, conforming to IS: 5, shade no.536. Nozzle shall be yellow epoxy polished. The paint shall confirm to IS: 2932.

7.0 TESTING

Monitor shall be tested to fulfill hydraulic performance requirements as per clause 4.0, 5.0 above and as per Data Sheet of Water cum Foam monitor attached with Bids.

All the Monitors shall be tested as follows:

The entire assembly shall be subjected to hydraulic pressure of 23 kg/cm² and horizontal rotation shall be carried out 5 times and then vertical rotation up and down for 5 cycles. During the test there shall be no leakage observed in any of the swiveled joints.

8.0 MARKING

8.1 Each Monitor shall be clearly and permanently marked with the following:

- (a) Manufacturer's name or trademark
- (b) Year of manufacture
- (c) Purchaser's name and order reference.

- (d) Discharge Capacity in liters / minute.
- (e) FM/UL listing marks.

9.0 INSPECTION

Owner's/ EIL's authorized representative shall have access at all reasonable times to vendor's works where monitors are being manufactured and/ or tested. Vendor shall arrange for all tests and inspection facilities for checking material, design and construction, hydraulic performance, workmanship, finish and hydrostatic. Any shortcoming pointed out shall be rectified to the satisfaction of the inspectors. All consumables i.e. water, foam etc. shall be arranged by vendor at his own cost.

10.0 PERFORMANCE GUARANTEE

The manufacturer shall guarantee the material, workmanship and the performance for a period of one year from the date of the appliance reaching the plant site. The vendor without any extra cost shall rectify any mechanical defect, faulty workmanship or operational defects found during this period.

11.0 DRAWINGS

Refer scope drawing enclosed in Bid document.

12.0 VENDOR'S DRAWING AND DATA REQUIREMENT

Vendor shall furnish drawings and data as per Annexure A.

13.0 DATA SHEET

Data sheets of long range water cum foam monitor is attached with the tender (A806-000-17-44-DS-0010). Detailed data sheets shall be made by the vendor and shall be furnished for review to the EIL/Owner.

14.0 APPROVAL

Vendor shall provide certified approved drawings / documents authenticated by UL/FM as documentary evidence along with bids.

ANNEXURE-A

VENDOR DATA REQUIREMENT
(X: MEANS DATA REQUIRED FROM VENDOR)

S. No.	Description	Along with the Bid	After job award
1.	Technical Data Sheet		X
2.	Deviation Schedule	X	
3.	Basic Design parameters, performance data like Projectile movement of water stream, Foot print (shape, size, area) of stream at landing zone, catalogues, Brochures, K- factor of nozzle, Pressure drop across the monitor, etc.		X
4.	UL/FM listing documents of water cum foam monitor as per Approval		X
5.	General Arrangement drawing and cross sectional details drawings		X
6.	Installation, Pre-commissioning and Performance Guarantee tests procedures		X
7.	Operating & instruction manual		X
8.	Inspection and testing Records		X

Client : M/s OIL INDIA LIMITED	Dept./Sect. : 16/43
Project : NEW FIRE WATER SYSTEM FOR LPG PLANT AREA	
Location: DULIAJAN	Pipe Class: A97A Sheet 1 of 5

PIPE CLASS : **A97A**

RATING : 150

BASE MATERIAL : CARBON STEEL

CORROSION ALLOWANCE: 1.5 MM

SPECIAL REQUIREMENT :

TEMPERATURE (Deg. C) AND PRESSURE (Kg/Sq. cm g) RATINGS

TEMP	0	38	50	65	65
PRESS	14.7	14.7	14.7	18.9	14.7

SERVICE

FIRE WATER (ABOVE AND UNDER GROUND)

NOTES

- 65 FORGINGS ARE ACCEPTABLE IN LIEU OF PLATE MATERIAL FOR BLIND FLANGES AND SPACER & BLINDS.
- 88 AS PER TAC REQUIREMENTS, 10% OF THE BUTT WELD JOINTS SHALL BE RADIOGRAPHED. HOWEVER, 50% OF THESE BUTT WELD JOINTS SHALL BE FIELD WELD JOINTS.
- 104 FOR PERMANENT AND TEMPORARY T-TYPE BW STRAINERS REFER EIL STD 7-44-0303 AND 7-44-0304
- 107 FOR SIZE ABOVE 24"SPACER AND BLIND AS PER EIL 'STD 7-44-0162
- 151 NDT REQUIREMENT SHALL BE AS PER JOB SPECIFICATION 6922-6-44-0016.
- 199 FOR U/G SERVICES, PIPE WALL THICKNESSES ARE CALCULATED BASED ON SOIL PARAMETERS AND BURIAL DEPTH OF 1500MM.

SPECIAL NOTES

ITEM	SIZE	DESCRIPTION	A.CODE
MAINTAINENCE JOINTS	ALL	FLANGED, TO BE KEPT MINIMUM	
PIPE JOINTS	1.5" & BELOW	SW COUPLING 3000 LBS.	
	2.0" & ABOVE	BUTTWELDED	
DRAINS	ON LINES <= 1.5"	REFER EILSTD 7-44-350, DF3	
	ON LINES >= 2.0"	0.75" OR AS PER P&ID. REFER EIL STD. 7-44-351, D4	
VENTS	ON LINES <= 1.5"	REFER EIL STD. 7-44-350, VC1	
	ON LINES >= 2.0"	0.75" OR AS PER P&ID. REFER EIL STD 7-44-351, V1	
TEMP.CONN	1.5"	FLANGED. REFER EIL STD 7-44-353	
PRESS.CONN	0.75"	SW NIPPLE WITH GATE VALVE TO SPEC AS PER EIL STD 7-44-354	

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A97A

Client : M/s OIL INDIA LIMITED	Dept./Sect. : 16/43
Project : NEW FIRE WATER SYSTEM FOR LPG PLANT AREA	
Location: DULIAJAN	Pipe Class: A97A Sheet 3 of 5

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/ Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Pipe Group									
PIP	PIPE	0.50	1.50	HVY	IS-1239-I	IS-1239 (BLACK)	PE, C.WELDED	PI6D471Z0	
PIP	PIPE	2.00	6.00	HVY	IS-1239-I	IS-1239 (BLACK)	BE, C.WELDED	PI6D411Z0	
PIP	PIPE	8.00	14.00	6.0	IS-3589	IS-3589 GR.410	BE, WELDED	PI7E319Z0	
PIP	PIPE	16.00	24.00	8.0	IS-3589	IS-3589 GR.410	BE, WELDED	PI7E319Z0	
PIP	PIPE	26.00	32.00	10.0	IS-3589	IS-3589 GR.410	BE, WELDED	PI7E319Z0	
PIP	PIPE	34.00	40.00	12.0	IS-3589	IS-3589 GR.410	BE, WELDED	PI7E319Z0	
NIP	NIPPLE	0.50	1.50	M	IS-1239-I	IS-1239 (BLACK)	PBE, SEAMLESS	PN6D467Z0	
Flange Group									
FLG	FLNG.SW	0.50	1.50	M	B-16.5	ASTM A 105	150, RF/125AARH	FSC0127Z0	
FLG	FLNG.WN	26.00	40.00	M	B-16.47-B	ASTM A 105	150, RF/125AARH	FWB0127Z0	
FLG	FLNG.SO	2.00	24.00		B-16.5	ASTM A 105	150, RF/125AARH	FNC0127Z0	
FLB	FLNG.BLIND	0.50	24.00		B-16.5	ASTM A 105	150, RF/125AARH	FBC0127Z0	
FLB	FLNG.BLIND	26.00	40.00		B-16.47-B	ASTM A 285 GR.C	150, FF/125AARH	FBB5321Z0	
FEF	FLNG.FIG.8	0.50	8.00		ASME-B16.48	ASTM A 105	150, FF/125AARH	FGK0121Z0	
FEF	SPCR&BLND	10.00	24.00		ASME-B16.48	ASTM A 105	150, FF/125AARH	FCK0121Z0	
FEF	SPCR&BLND	26.00	40.00		EIL'STD	ASTM A 285 GR.C	150, FF/125AARH	FCE5321Z0	107
Fitting Group									
ELB90	ELBOW.90	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WA602D2Z0	
ELB90	ELBOW.90	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW, 1.5D	WAG684Z10	
ELB90	ELBOW.90	8.00	40.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW, 1.5D	WAG754Z10	
ELB45	ELBOW.45	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WB602D2Z0	
ELB45	ELBOW.45	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW, 1.5D	WBG684Z10	
ELB45	ELBOW.45	8.00	40.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW, 1.5D	WBG754Z10	
TEQ	T.EQUAL	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WE602D2Z0	

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A97A

Client : M/s OIL INDIA LIMITED	Dept./Sect. : 16/43
Project : NEW FIRE WATER SYSTEM FOR LPG PLANT AREA	
Location: DULIAJAN	Pipe Class: A97A Sheet 4 of 5

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/ Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Fitting Group									
TEQ	T.EQUAL	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW	WEG684ZZ0	
TEQ	T.EQUAL	8.00	40.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW	WEG754ZZ0	
TRED	T.RED	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WR602D2Z0	
TRED	T.RED	2.00	6.00	STD, STD	B-16.9	ASTM A 234 GR.WPB	BW	WRG684ZZ0	
TRED	T.RED	8.00	40.00	M, M	B-16.9	ASTM A 234 GR.WPB-W	BW	WRG754ZZ0	
REDC	REDUC.CONC	2.00	6.00	STD, STD	B-16.9	ASTM A 234 GR.WPB	BW	WUG684ZZ0	
REDC	REDUC.CONC	8.00	40.00	M, M	B-16.9	ASTM A 234 GR.WPB-W	BW	WUG754ZZ0	
REDE	REDUC.ECC	2.00	6.00	STD, STD	B-16.9	ASTM A 234 GR.WPB	BW	WVG684ZZ0	
REDE	REDUC.ECC	8.00	40.00	M, M	B-16.9	ASTM A 234 GR.WPB-W	BW	WVG754ZZ0	
SWGC	SWAGE.CONC	0.50	3.00	STD, STD	BS-3799	ASTM A 105	PBE	WNH026ZZ0	
SWGE	SWAGE.ECC	0.50	3.00	STD, STD	BS-3799	ASTM A 105	PBE	WPH026ZZ0	
CAP	CAP	0.50	1.50		B-16.11	ASTM A 105	SCRF, 3000	WF60282Z0	
CAP	CAP	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW	WFG684ZZ0	
CAP	CAP	8.00	40.00	M	B-16.9	ASTM A 234 GR.WPB	BW	WFG684ZZ0	
PLG	PLUG	2.00	4.00		B-16.9	ASTM A 105	SCRM, 3000	WHG0292Z0	
CPLF	CPLNG.FULL	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WJ602D2Z0	
CPLH	CPLNG.HALF	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WK602D2Z0	
CPLL	CPLNG.LH	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WL602D2Z0	
CPLR	CPLNG.RED	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WM602D2Z0	
UNN	UNION	0.50	1.50		BS-3799	ASTM A 105	SW, 3000	WQH02D2Z0	
Valves Group									
GAV	VLV.GATE	0.25	1.50		API-602	BODY-ASTM A 105,TRIM-STELLITED,STEM-13%CR.STEEL	SW, 800, 3000, B-16.11, SHT NO.- 51001	51001ZZZ0	
GAV	VLV.GATE	2.00	24.00		API-600	BODY-ASTM A 216 GR.WCB,TRIM-	FLGD, 150, B-16.5, RF/125AARH, SHT	51321ZZZ0	

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Project : NEW FIRE WATER SYSTEM FOR LPG PLANT AREA	
Location: DULIAJAN	Pipe Class : A97A Sheet 5 of 5

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/ Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Valves Group									
						13% CR.STEEL	NO.- 51321		
GAV	VLV.GATE	26.00	48.00		BS-1414	BODY-,TRIM-13% CR.STEEL	FLGD, 150, B-16.47 B, RF/125AARH, SHT NO.- 51390	51390ZZZ0	
GLV	VLV.GLOBE	0.50	1.50		BS-5352	BODY-ASTM A 105,TRIM-STELLITED,STEM-13%CR STEEL	SW, 800, 3000, B-16.11, SHT NO.- 52001	52001ZZZ0	
GLV	VLV.GLOBE	2.00	16.00		BS-1873	BODY-ASTM A 216 GR.WCB,TRIM-13% CR.STEEL	FLGD, 150, B-16.5, RF/125AARH, SHT NO.- 52321	52321ZZZ0	
CHV	VLV.CHECK	0.50	1.50		BS-5352	BODY-ASTM A 105,TRIM-STELLITED	SW, 800, 3000, B-16.11, SHT NO.- 53001	53001ZZZ0	
CHV	VLV.CHECK	2.00	24.00		BS-1868	BODY-ASTM A 216 GR.WCB,TRIM-13% CR.STEEL	FLGD, 150, B-16.5, RF/125AARH, SHT NO.- 53321	53321ZZZ0	
BFV	VLV.BTRFLY	3.00	24.00		BS-5155	BODY-ASTM A 216 GR.WCB,TRIM-13% CR.STEEL	WAF, 150, B-16.5, WAF/125AAR, SHT NO.- 56320	56320ZZZ0	
BFV	VLV.BTRFLY	26.00	36.00		BS-5155	BODY-ASTM A 216 GR.WCB,TRIM-13% CR.STEEL	FLGD, 150, B-16.47 B, RF/125AARH, SHT NO.- 56310	56310ZZZ0	
Bolt Group									
BOS	BOLT.STUD	0.50	40.00		B-18.2	BOLT:A193 GR.B7, NUT:A194 GR.2H		BS40404Z0	
Gasket Group									
GAS	GASKET	0.50	24.00		B-16.21-ANSI B16.5	NONASBESTOS BS7531 GR X	RING, 150, 2 MM	GKBAX52Z0	
GAS	GASKET	26.00	40.00		B-16.21-ANSI B16.47B	NONASBESTOS BS7531 GR X	FULLFACE, 150, 2 MM	GKAAX22Z0	
Trap/Strainer Group									
PSR	STRNR.PERM	0.50	1.50		MNF'STD	B:A105;INT:SS304	SW, Y-TYPE, 800	SP303D510	
PSR	STRNR.PERM	2.00	6.00	STD	EIL'STD	B:A234GR.WPB;IN T:SS304	BW, T-TYPE	SP13344Z0	104
PSR	STRNR.PERM	8.00	24.00	M	EIL'STD	B:A234GR.WPBW;I NT:SS304	BW, T-TYPE	SP13644Z0	104
PSR	STRNR.PERM	26.00	40.00	M	EIL'STD	B:A234GR.WPBW;I NT:SS304	BW, T-TYPE	SP13644Z0	104

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A97A

Client : M/s OIL INDIA LIMITED	Dept./Sect. : 16/43
Project : NEW FIRE WATER SYSTEM FOR LPG PLANT AREA	
Location: DULIAJAN	Pipe Class: J2A Sheet 1 of 4

PIPE CLASS : J2A

RATING : 150

BASE MATERIAL : CS (Galv.)

CORROSION ALLOWANCE: 0 MM

SPECIAL REQUIREMENT :

TEMPERATURE (Deg. C) AND PRESSURE (Kg/Sq. cm g) RATINGS

TEMP	0	38	65
PRESS	10.55	10.55	10.55

SERVICE

POTABLE WATER (ABOVE GROUND ONLY),
FIRE WATER-SPRINKLER SYSTEM AFTER ORIFICE

NOTES

- 1 NDT REQUIREMENTS AS PER EIL STANDARD 6-44-0016.
- 19 THREADED JOINTS SHALL BE MADE WITH 1" WIDTH PTFE JOINING TAPE.
- 20 SURFACES WHERE GALVANISING HAS BEEN BURNT OFF SHALL BE WIRE BRUSHED AND COLD GALVANISED WITH ZINC COATING COMPOUND.

SPECIAL NOTES

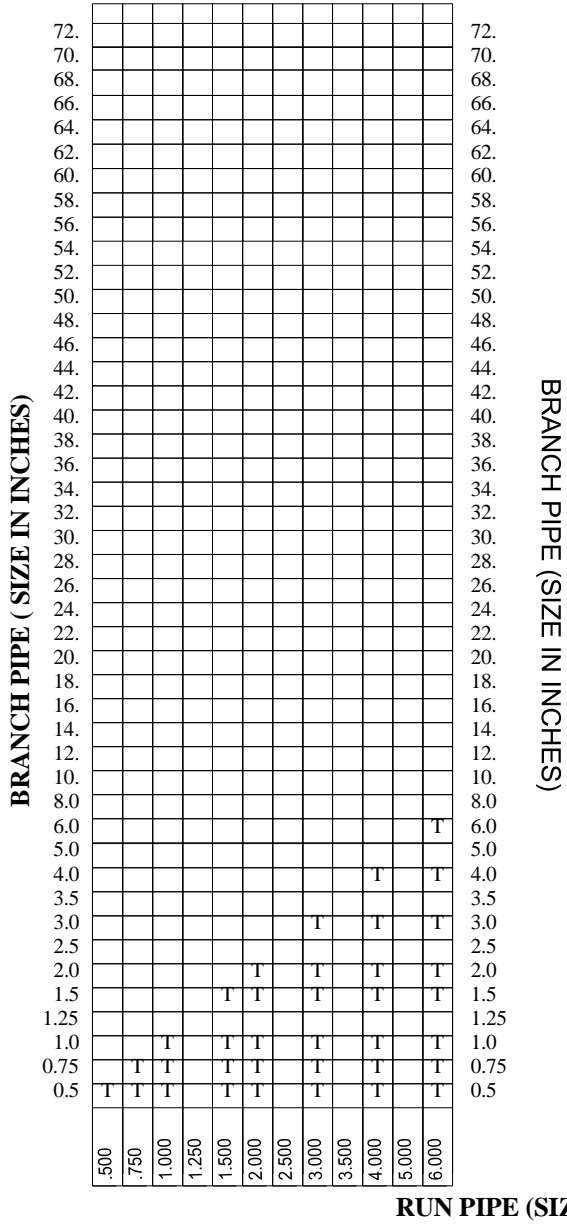
ITEM	SIZE	DESCRIPTION	A.CODE
MAINTAINENCE JOINTS	1.5" & BELOW	UNIONS (SCRF) TO BE KEPT MINIMUM	
	2" & ABOVE	FLANGED (SCREWED) TO BE KEPT MINIMUM	
PIPE JOINTS	UPTO 6"	SCREWED COUPLING	
DRAINS	ON LINES <= 1.5"	REFER EIL STD 7-44-0350, DC3	
	ON LINES >= 2.0"	AS PER P&ID OR 0.75". REFER EIL STD. 7-44-0351, D3	
VENTS	ON LINES <= 1.5"	REFER EIL STD 7-440350, VC3	
	ON LINES >= 2.0"	AS PER P&ID OR 0.75". REFER EIL STD 7-44-0351, V3	
TEMP.CONN	1.5"	FLANGED. REFER EIL STD 7-44-0353	
PRESS.CONN	0.75"	SCRD NIPPLE WITH VALVE TO SPEC AS PER EIL STD 7-44-0354	

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J2A

Client :	M/s OIL INDIA LIMITED	Dept./Sect. :	16/43
Project :	NEW FIRE WATER SYSTEM FOR LPG PLANT AREA		
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CODE	DESCRIPTION				
F	SADDLE FUSED JT	T	TEES	J	THREADOLET
H	H. COUPLING	W	WELDOLETS		
P	PIPE TO PIPE	I	INSTRUMENT TEE		
R	REINFORCED	X	Refer Notes		
S	SOCKOLETS	L	SWEEPOLET		

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J2A

Client	: M/s OIL INDIA LIMITED	Dept./Sect. :	16/43
Project	: NEW FIRE WATER SYSTEM FOR LPG PLANT AREA		
Location:	DULIAJAN	Pipe Class: J2A	Sheet 3 of 4

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/ Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Pipe Group									
PIP	PIPE	00.500	06.000	HVY	IS-1239-I	IS-1239 (GALV)	SCRM, WELDED	PI6D599Z0	
Flange Group									
FLG	FLNG.SCRD	00.500	06.000		B-16.5	ASTM A 105(GALV.)	150, FF/125AARH	FTC0721Z0	
FLB	FLNG.BLIND	00.500	06.000		B-16.5	ASTM A 105(GALV.)	150, FF/125AARH	FBC0721Z0	
FEF	FLNG.FIG.8	00.500	06.000		ASME-B16.48	ASTM A 105(GALV.)	150, FF/125AARH	FGK0721Z0	
Fitting Group									
ELB90	ELBOW.90	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WA60882Z0	
ELB90	ELBOW.90	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WALE98ZZ0	
ELB45	ELBOW.45	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WB60882Z0	
ELB45	ELBOW.45	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WBLE98ZZ0	
TEQ	T.EQUAL	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WE60882Z0	
TEQ	T.EQUAL	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WELE98ZZ0	
TRED	T.RED	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WR60882Z0	
TRED	T.RED	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WRLE98ZZ0	
SWGC	SWAGE.CONC	00.500	03.000	M, M	BS-3799	ASTM A 105(GALV)	TBE	WNH08EZZ0	
SWGE	SWAGE.ECC	00.500	03.000	M, M	BS-3799	ASTM A 105(GALV)	TBE	WPH08EZZ0	
CAP	CAP	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WF60882Z0	
CAP	CAP	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WFLE98ZZ0	
CPLF	CPLNG.FULL	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WJ60882Z0	
CPLF	CPLNG.FULL	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WJLE98ZZ0	
CPLH	CPLNG.HALF	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WK60882Z0	
CPLH	CPLNG.HALF	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WKLE98ZZ0	
CPLL	CPLNG.LH	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WL60882Z0	
CPLL	CPLNG.LH	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WLLE98ZZ0	

Package : IPMCS

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J2A

Client	: M/s OIL INDIA LIMITED	Dept./Sect.	: 16/43
Project	: NEW FIRE WATER SYSTEM FOR LPG PLANT AREA		
Location:	DULIAJAN	Pipe Class :	J2A Sheet 4 of 4

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/ Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Fitting Group									
CPLR	CPLNG.RED	00.500	01.500		B-16.11	ASTM A 105(GALV)	SCRF, 3000	WM60882Z0	
CPLR	CPLNG.RED	02.000	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WMLE98ZZ0	
UNN	UNION	00.500	06.000		IS-1239-II	IS-1239(PART-II) (GALV)	SCRF, NA	WQLE98ZZ0	
Valves Group									
GAV	VLV.GATE	00.500	01.500		IS:778 CL.2	BODY-IS 318 GR.LTB2 (LEADED TIN BRONZE),TRIM- IS 320 ALLOY HT2	SCRF, CL.2, 3000, B-1.20.1, SHT NO.- 51080	51080ZZZ0	
GAV	VLV.GATE	02.000	06.000		IS:14846	BODY-IS 210 GR.FG 200,TRIM- IS 320 ALLOY HT2	FLGD, PN1.6, B-16.1, FF/125AARH, SHT NO.- 51380	51380ZZZ0	
GLV	VLV.GLOBE	00.500	01.500		IS:778 CL.2	BODY-IS 318 GR.LTB2 (LEADED TIN BRONZE),TRIM- IS 320 ALLOY HT2	SCRF, CL.2, 3000, B-1.20.1, SHT NO.- 52080	52080ZZZ0	
CHV	VLV.CHECK	00.500	01.500		IS:778 CL.2	BODY-IS 318 GR.LTB2 (LEADED TIN BRONZE),TRIM- IS 320 ALLOY HT2	SCRF, CL.2, 3000, B-1.20.1, SHT NO.- 53080	53080ZZZ0	
CHV	VLV.CHECK	02.000	06.000		IS:5312 (PT-1)	BODY-IS 210 GR.FG 200,TRIM- IS 320 ALLOY HT2	FLGD, PN1.6, B-16.1, FF/125AARH, SHT NO.- 53380	53380ZZZ0	
Bolt Group									
BOM	BOLT.M/C	00.500	06.000		B-18.2	BOLT:A307 GR.B(GALV), NUT:A563 GR.B(GALV)		BM41519Z0	
Gasket Group									
GAS	GASKET	00.500	06.000		B-16.21-ANSI B16.5	BUTYL RUBBER	FULLFACE, 150, 2 MM	GKB0422Z0	

Package : IPMCS

Report No. : 50

PROJECT	UPGRADATION OF FIRE PROTECTION SYSTEM OF LPG RECOVERY & LPG FILLING PLANT IN OIL, DULIAJAN		CLIENT	M/S OIL, DULIAJAN		
PLANT	LPG PLANT , OIL DULIAJAN		JOB NO	A806	UNIT NO	000
GENERAL						
LOCATION			OUTDOOR			
TYPE			STAND POST TYPE (FIXED), SINGLE BARREL, LEVER OPERATED, NON ASPIRATING, FIELD ADJUSTABLE VARIABLE FLOW			
APPROVAL			UL/ FM APPROVED			
OPERATING CONDITIONS						
FLUID HANDLED			WATER / FOAM SOLUTION.			
TEMPERATURE			AMBIENT			
PRESSURE		MAX.	12.6 KG/CM2g			
		MIN.	7.0 KG/CM2g			
DESIGN FEATURES						
MONITOR BODY	OPERATION TYPE		MANUAL OPERATED.			
	MOVEMENT		HORIZONTALLY- 360°; VERTICALLY- 125° (+80°, -45°).			
	INLET CONNECTION		BASE FLANGE SIZE 100MM (4") NB AS PER PMS A97A			
	OUTLET CONNECTION		EXTERNAL THREADS AS PER IS: 2643 (PART I).			
NOZZLE	TYPE		WATER CUM FOAM DIFFUSER TYPE WITH JET/ SPRAY ARRANGEMENT WITH FOAM PICK UP TUBE			
	CONNECTION		THREADED, FEMALE.			
	FINISH		AS PER SPECIFICATIONS			
PERFORMANCE	OPERATING PRESSURE		7.0 KG/CM2g			
	FLOW RATE		Variable (500 USGPM TO 750 USGPM TO 1000 USGPM)			
WATER/FOAM	MIN. DISCHARGE RANGE					
	500 USGPM	HORIZONTAL-42m/37m AT 45° FROM HORIZONTAL PLANE ; VERTICAL - 22m / 20m AT 60° FROM HORIZONTAL PLANE FOR WATER & FOAM RESPECTIVELY				
	1000 USGPM	HORIZONTAL- 55M/50M AT 45° FROM HORIZONTAL PLANE ; VERTICAL – 28M / 26sM AT 60° FROM HORIZONTAL PLANE FOR WATER & FOAM RESPECTIVELY				
MATERIALS						
NOZZLE			SS304			
SWIVEL JOINT/WORM WHEEL & GEAR			SS304			
BODY / ELBOW / BEND			SS304			
WATER / FOAM BARREL			SS304			
LOCKS OF HORIZONTAL & VERTICAL ROTATION			SS304			
HANDLE			SS304			
PICK UP TUBE			PVC BRAIDED HOSE, REINFORCED WITH HIGH TENSILE STEEL WIRE HELIX AS PER ASTM D1785 SCH 80, 3M LONG WITH SS STRAINER			
DRAIN VALVE			SS304			
TEST & INSPECTION						
DIMENSION & WORKMANSHIP			YES.			
HYDROSTATIC TEST AND FUNCTIONAL TEST FOR HORIZONTAL AND VERTICAL MOVEMENT			YES AT 25 KG/CM2g* FOR 5 MINUTES, WITHOUT ANY LEAKAGE.			
DISCHARGE CAPACITY AND HORIZONTAL / VERTICAL THROW TEST						
PAINTING						
BODY (ABOVE GROUND)			3 COATS OF ANTI-COROSIVE FIRE RED PAINT AS PER IS: 2932 AND CONFORMING TO SHADE NO. 536 OF IS: 5, OVER 2 COATS OF RED OXIDE ZINC CHROMATE PRIMER OR SINGLE COAT OF ALUMINIUM PAINT.			
NOTES:						
1. Vendor shall furnish the water/foam throw range of the monitor.						
2. For detailed specification, refer job. Spec. no. A806-000-17-44-SP-0001						
0	24.09.15	ISSUED FOR BIDS			AC	VG
NO	DATE	REVISION			BY	CHK
ENGINEERS INDIA LTD NEW DELHI		VARIABLE FLOW WATER CUM FOAM MONITOR AQUA FOG TYPE 500-750-1000 USGPM (UL/ FM APPROVED)			DATA SHT. NO. A806-000-17-44-DS-0010	
					REV	0

Annexure- DDD

INTEGRITY PACT

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

(Name of the bidder).....hereinafter referred to as "The Bidder/Contractor" |

Preamble :

The Principal intends to award, under laid down organizational procedures, contract/s for Tender No. **SDI0424P16**. The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organisation "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
 2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
 3. The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a Page 2 of 6 substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder/Contractor

- (1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 1. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 2. The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.
 3. The Bidder/Contractor will not commit any offence under the relevant Anticorruption Laws of India; further the Bidder/Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 4. The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future Contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or credibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.

2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
1. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

Section 4 - Compensation for Damages

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to 3 % of the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.
3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 - Previous transgression

1. The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/Contractor/Subcontractors

1. The Bidder/Contractor undertakes to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.

3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidders/Contractors/ Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - External Independent Monitor/Monitors (three in number depending on the size of the contract) (to be decided by the Chairperson of the Principal)

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.
3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed

against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8. The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section 10 - Other provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

R BARMAN
SR MANAGER MATERIALS (IP)

For the Principal

For the Bidder/Contractor

Place. Duliajan.

Witness 1 :

Date 03.03.2016 .

Witness 2 :

Technical Bid Checklist**Annexure-EEE**

Tender No.			
Bidder's Name :			
		Compliance by Bidder	
SL. NO.	BEC / TENDER REQUIREMENTS	Indicate 'Confirmed' / 'Not Confirmed' / Not applicable	Indicate Corresponding page ref. of unpriced bid or Comments
1	Bidder to confirm that he has not taken any exception/deviations to the bid document .		
2	Confirm that the product offered strictly conform to the technical specifications.		
3	Confirm that the Offer has been made with Bid Bond / Bank Guarantee / Earnest Money along with the offer (Wherever Applicable) ?		
4	Confirm unconditional validity of the bid for 120 days from the date of opening of techno-commercial bid.		
5	Confirm that the prices offered are firm and / or without any qualifications?		
6	Confirm that all relevant fields in the on-line bidding format have been filled in by the bidder for the items quoted by them.		
7	Confirm that the price bid is in conformity with OIL's online bidding format ?		
8	Confirm that the Bid comply with all the terms & conditions ?		
9	Confirm that the offers and all attached documents are digitally signed using digital signatures issued by an acceptable Certifying Authority (CA) as per Indian IT Act 2000.		
10	CONFIRM THAT YOU HAVE SUBMITTED THE DULY SIGNED INTEGRITY PACT DOCUMENT (Wherever Applicable)		
11	CONFIRM THAT YOU SHALL SUBMIT PERFORMANCE BANK GUARANTEE AS PER NIT IN THE EVENT OF PLACEMENT OF ORDER ON YOU (Wherever Applicable)		
12	CONFIRM THAT YOU HAVE SUBMITTED DOCUMENTS AS PER GENERAL QUALIFICATION CRITERIA		
13	Confirm that you have submitted Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager where Bid security has been submitted as Bank Guarantee.		

NOTE: Please fill up the greyed cells only.

Response Sheet**Annexure-FFF**

Tender No.	
Bidders Name	

Bidders Response Sheet

Sl No.	Description	Remarks
1	Name of Bidder	
2	Whether tender document purchased from OIL's offices.	
3	Place of Despatch	
4	Whether Freight charges have been included in your quoted prices	
5	Whether Insurance charges have been included in your quoted prices	
6	Make of quoted Product	
7	Offered Validity of Bid as per NIT	
8	Delivery Period in weeks from placement of order	
9	Complied to Payment terms of NIT (if applicable) otherwise to Standard Payment Terms of OIL or not.	
10	Bid Security Submitted (if applicable)	
11	Details of Bid Security Submitted to OIL (if applicable)	
	a) Bid Security Amount (In Rs):	
	b) Bid Security Valid upto:	
12	If Bid security submitted as Bank Guarantee, Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager	
13	Bid Security if Not submitted reasons thereof	
14	Whether you shall submit Performance Security in the event of placement of order on you (if applicable)	
15	Integrity Pact Submitted (if applicable)	
16	Whether submitted documents in support of General Qualification criteria of NIT	
17	If bidder is Small scale unit whether you have quoted your own product	
18	If bidder is Small scale unit whether you are eligible for purchase preference (as per Govt guidelines)	
19	Whether filled up the bank details for online payment as per Annexure GGG	

NOTE: Please fill up the greyed cells only.

ANNEXURE - GGG

**(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETTER HEAD)
(ALL FIELDS ARE MANDATORY)**

Tender No. :.....
Name of Beneficiary :M/s.....
Vendor Code :.....
Address :.....
.....
Phone No. (Land Line) :.....
Mobile No. :.....
E-mail address :.....
Bank Account No. (Minimum
Eleven Digit No.) :.....
Bank Name :.....
Branch :.....
Complete Address of your
Bank :.....
IFSC Code of your Bank
a) RTGS :.....
b) NEFT :.....
PAN :.....
VAT Registration No. :.....
CST Registration No. :.....
Service Tax Registration No. :.....
Provident Fund Registration :.....

I/We confirm and agree that all payments due to me/us from Oil India Limited can be remitted to our above mentioned account directly and we shall not hold Oil India Limited responsible if the amount due from Oil India Limited is remitted to wrong account due to incorrect details furnished by us.

Office Seal

.....
Signature of Vendor

**Counter Signed by Banker:
Seal of Bank:**

Enclosure: Self attested photocopies of the following documents-

- 1) PAN Card
- 2) VAT Registration Certificate
- 3) Service Tax Registration
- 4) CST Registration
- 5) Provident Registration Certificate
- 6) Cancelled cheque of the bank account mentioned above (in original).
- 7) Bank Statement not older than 15 days on the date of submission.