

**OIL INDIA LIMITED
(A GOVT. OF INDIA ENTERPRISE)
P.O. DULIAJAN-786602, ASSAM
E-TENDER NOTICE**

OIL INDIA LIMITED (OIL) invites Bids from experienced Service Providers through its E- procurement portal “<https://etender.srm.oilindia.in/irj/portal>” for the following services.

IFB No.	CDI7201P16
Description of Service	PROTECTIVE PAINTING OF PROCESS EQUIPMENT, PIPINGS, STORAGE VESSELS, STRUCTURES, ETC. OF LPG RECOVERY AND FILLING PLANT
Type of Bid	SINGLE STAGE TWO BID SYSTEM
Period of Sale of Bid Document	22.05.2015 TO 16.06.2015
Bid Closing / Opening Date & Time	23.06.2015 (11:00 HRS / 14:00 HRS : Server Time)
Bid Submission Mode	Bid should be uploaded in OIL’s e-Procurement portal.
Bid Opening Place	Office of the Head-Contracts, Contracts Department, Oil India Limited, Duliajan, District: Dibrugarh (Assam), PIN-786602.
Priced Bid Opening Date & Time	Will be intimated to the eligible bidder(s) nearer time.
Cost of Bid Document	Rs. 2000.00
Bid Security (EMD)	Rs. 50,000.00 The Bid Security should be in the form of a BANK DRAFT / BANKER'S CHEQUE/ BANK GUARANTEE (valid for minimum 210 days from the date of Technical bid opening i.e minimum up to 18.01.2016) favouring OIL INDIA LIMITED, payable at DULIAJAN for the amount applicable and purchased from any Nationalised / Scheduled Bank. Alternatively, the Bid Security can be deposited on-line in the E-procurement portal through the online payment gateway. Notes: a. In case of Bidder(s) submitting Bid Security in the form of BANK DRAFT / BANKER'S CHEQUE/ BANK GUARANTEE, the Original hard copy of Bid Security should reach the office of HEAD-CONTRACTS before Bid opening date and time. b. A scanned copy of Bid Security document / EMD Invoice (in case of Bid Security deposited on-line) should also be uploaded along with the Unpriced Techno-Commercial Bid documents.

2.0 For participation, Cost of Bid Document (Non-Transferable and Non-refundable) by way of Demand Draft / Banker’s Cheque from any Scheduled Bank in favour of OIL INDIA LIMITED and payable at **Duliajan**, along with the application(s) on applicants letter pad with a request for USER ID & PASSWORD is to be submitted /sent to reach the **Office of Head-Contracts, Contracts Department, Oil India Limited, P.O. Duliajan, Assam-786602** within the period of sale (inclusive both the days i.e. start date & end date) of Bid document. Alternatively, applicants already having User ID & Password for OIL’s E-procurement portal can register against the IFB and pay the requisite Bid Document cost through the online payment gateway provided in the E-procurement portal.

2.1 In case the Bidder(s) send their application for Bid Documents in sealed envelopes, the following must be super scribed on the envelope along with the name & registered postal address of the bidder in typed format or in clear legible handwriting:

Application & Tender Fees, IFB No.: CDI7201P16

Description of Services: Protective Painting of LPG Recovery and Filling Plant

2.2 Amongst others, the Bidder(s) must also provide the following information in the application for request for Bid documents:

- (i) Valid e-mail ID (ii) Registered Postal Address with PIN code (iii) Vendor Code with OIL (if available)
- (iv) Mobile No. /Telephone No. (v) Whether participated in OIL’s e-tender prior to this tender.

3.0 No physical Bid documents will be provided. On receipt of requisite Bid Document Cost (in case Cost of Bid Document is submitted in the form of Demand Draft / Banker’s Cheque), USER_ID and initial PASSWORD

E-TENDER NO. CDI7201P16

will be communicated to the bidder through e-mail at the e-mail address provided along with request for Bid documents as mentioned in 2.2 (i) above and will be allowed to participate in the bidding through OIL's E-Procurement portal.

4.0 SALIENT ELIGIBILITY CRITERIA:

4.1 Bidder must submit all necessary documents relating to his experience in any LPG plant, otherwise bid will be rejected.

4.2 Bidder must have relevant experience in carrying out similar nature of job as defined in this tender, in any LPG Plant, Hydrocarbon process plants, Petrochemical Plants, Fertilizers etc. in PSUs/ Central Govt./ State Govt./ reputed Private sector/ Multinational Petroleum sector in last 7(seven) years ending **30.04.2015** and documentary evidence of experience and also successful completion certificate of the jobs must be submitted otherwise bid will be rejected.

4.3 Bidder shall have to quote directly and not through any agent. Offers made by their agents on behalf of their principals/ undertaking will be rejected. Similarly, bids received from unsolicited parties shall be rejected.

4.4 Bidder shall provide documentary evidence in terms of -

(a) Work order and

(b) Job completion certificate(s) from client about experience of having successfully completed "Similar Works" during last 7 years ending **30.04.2015** should be either of the following:

i) Three similar completed works each costing not less than the amount equal to **Rs. 19.71 lakhs (Rupees Nineteen Lakhs Seventy One Thousand only)**

OR

ii) Two similar completed works each costing not less than the amount equal to **Rs. 24.64 lakhs (Rupees Twenty Four Lakhs Sixty Four Thousand only)**

OR

iii) One similar completed work costing not less than the amount equal to **Rs. 39.42 lakhs (Rupees Thirty Nine Lakhs Forty Two Thousand only)**

"Similar Works" means protective painting job in LPG Recovery Plant or LPG Filling Plant or Refinery or Petrochemicals or Gas Processing Plant etc. in Oil PSU/ Oil Public Limited Companies etc.

4.5 The bidder should have an average Annual turnover, during the last 3 (three) financial years ending **31.03.2014** as per Audited Annual Reports, of at least **Rs. 14.78 lakhs (Rupees Fourteen Lakhs Seventy Eight Thousand only)**. For proof of Annual turnover, attested/ self attested copy of the either of the following documents must be submitted along with the bid:

(a) Audited Profit & Loss account and Balance Sheet

OR

(b) Certification from Chartered / Cost Accountant firm indicating the Membership Number & Firm Registration Number.

5.0 Details of process for submission of Tenders Fees & Bid Security (EMD) through the online payment gateway are available in Vendor User Manual under E- procurement portal. (**Note:** Important Points for on-line Payment can be viewed at Oil India's website at url: <http://oil-india.com/pdf/ETenderNotification.pdf>).

6.0 PSU's and SSI units registered with NSIC claiming exemption from payment of tender fee should submit their request with all credentials at least 7 days in advance to get access for participation in the tender.

7.0 The link to OIL's E-Procurement portal has been also provided through OIL's web site (www.oil-india.com).

8.0 The details of IFB / Bid Documents can be viewed using "Guest Login" provided in the E-Procurement portal.

9.0 In order to bid for OIL's e-tenders; all the bidders are requested to obtain a legally valid Digital Certificate (Class III with Organisation) as per Indian IT Act from the licensed Certifying Authorities (CA) operating under Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. (**Note:** Digital Signature Certificates having "Organization Name" field as "Personal" are not acceptable. However, aforesaid Digital Signature Certificates having Bidder's Name in the "Organization Name" field are acceptable.)

DATE: 20.05.2015

**HEAD- CONTRACTS
FOR RESIDENT CHIEF EXECUTIVE**

**OIL INDIA LIMITED
(A GOVT. OF INDIA ENTERPRISE)
CONTRACTS DEPARTMENT, DULIAJAN**

OIL INDIA LIMITED invites ON-LINE BIDS from experienced / approved Contractors / Firms for the following mentioned work / service under **SINGLE STAGE TWO BID SYSTEM** through its e-Procurement site:

DESCRIPTION OF WORK/ SERVICE:

PROTECTIVE PAINTING OF PROCESS EQUIPMENT, PIPINGS, STORAGE VESSELS, STRUCTURES, ETC. OF LPG RECOVERY AND FILLING PLANT.

LOCATION : LPG RECOVERY & FILLING PLANT

CONTRACT PERIOD : 1 (One) year from the date of issue of Work Order.

BID SECURITY : Rs. 50,000.00 (RUPEES FIFTY THOUSAND ONLY)

BID CLOSING/ OPENING DATE & TIME : 23.06.2015 (11:00 HRS/14:00 HRS)

a) **Bid Security** deposited vide On-line Payment / Demand Draft / Banker's Cheque / Bank Guarantee

No. _____ dated _____ of _____

Original hard copy of (a) (In case of Bidder(s) submitting Bid Security in the form of Bank Draft / Banker's Cheque/ Bank Guarantee) should reach the office of HEAD-CONTRACTS on or before 12:45 Hrs (IST) on the bid closing date, otherwise Bid will be rejected. A scanned copy of Bid Security document / EMD Invoice (in case of Bid Security deposited on-line) should also be uploaded along with the Un-priced Techno-Commercial Bid documents.

b) Bidders to confirm that in the event of the award of Contract will submit Performance Security Deposit @ 7.5% of the total contract value and this will not earn any interest.

2.0 SEALED ENVELOPES containing the **Bid Security Deposit, Printed catalogue and Literature**, if called for in the tender shall be marked with the above Tender Number and description of work and addressed to:

HEAD-CONTRACTS
CONTRACTS DEPARTMENT
OIL INDIA LIMITED
DULIAJAN – 786602
ASSAM

All bidders shall deposit the requisite **BID SECURITY DEPOSIT** in the form of **On-line Payment / Demand Draft / Banker's Cheque / Bank Guarantee** (should be valid for minimum 210 days from the date of opening of Technical Bid i.e minimum upto 18.01.2016) from a Nationalised Bank / Scheduled Bank in favour of M/s Oil India Limited and payable at DULIAJAN. This Bid Security Deposit shall be refunded to all unsuccessful bidders, but is liable to be forfeited in full or part, at Company's discretion, as per Clause No. 6.0 below. **Bids without Bid Security Deposit in the manner specified above will be summarily rejected.**

3.0 Bid should be submitted online up to 11:00 AM (IST) (Server Time) on the date as mentioned and will be opened on the same day at 02:00 PM (IST) at Office of the Head-Contracts in presence of authorized representative of the bidder.

4.0 The rates shall be quoted per unit as specified in the "PRICE BIDDING FORMAT" attached under "Notes and Attachments" tab. Bidder should note that no pricing information is furnished in the "c-folder" (Un-priced Techno-Commercial Bid) otherwise the bid will be rejected.

The bid and all uploaded documents must be Digitally signed using "Class 3" digital certificate [e-commerce application (Certificate with personal verification and Organization name)] as per Indian IT

Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

Digital Signature Certificates having “Organization Name” field as “Personal” are not acceptable. However, aforesaid Digital Signature Certificates having Bidder’s Name in the “Organization Name” field are acceptable.

The authenticity of above digital signature shall be verified through authorized CA after bid opening. If the digital signature used for signing is not of “Class -3” with Organizations name, the bid will be rejected.

Bidder is responsible for ensuring the validity of digital signature and its proper usage by their employee.

The bid including all uploaded documents shall be digitally signed by duly authorized representative of the bidding company.

5.0 The Company reserves the right to reject any or all the tenders or accept any tender without assigning any reason.

6.0 (a) No Bidder can withdraw his bid within the validity or extended validity of the bid. Withdrawal of any bid within validity period will lead to forfeiture of his / her / their Bid Security Deposit in full and debarred from participation in future tenders, at the sole discretion of the company and the period of debarment will not be less than 6 (six) months.

(b) Once a withdrawal letter is received from any bidder, the offer will be treated as withdrawn and no further claim / correspondence will be entertained in this regard.

7.0 The Bid must be valid for 180 (One hundred & eighty) days from the date of opening of the tender.

8.0 Conditional bids are liable to be rejected at the discretion of the Company.

9.0 The work may be split up amongst more than one contractor at the sole discretion of the Company.

10.0 The bidders are required to furnish the composition and status of ownership of the firm in whose name bid documents have been purchased / issued along with one or more of the following documentary evidences (which are applicable to the bidder) in support of the same and scanned copies of the same should be uploaded along with the Un-priced Techno-Commercial Bid documents.

10.1 In case of Sole Proprietorship Firm, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, business and residential address, E-mail and telephone numbers of the owner and copies of Service Tax and Central Excise Registration Certificate.

10.2 In case of HUF, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form, Family Arrangement indicating therein the name, residential address, E-mail and telephone numbers of the owners in general and Karta in particular and copies of Service Tax and Central Excise Registration Certificate.

10.3 In case of Partnership Firm, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the partners(including the Managing Partner), registered partnership agreement/deed and copies of Service Tax and Central Excise Registration Certificate.

10.4 In case of Co-Operative Societies, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Directors or persons who are at the helm of affairs, registration certificate from Registrar of Co-Operative Societies and copies of Service Tax and Central Excise Registration Certificate.

10.5 In case of Societies registered under the Societies Registration Act, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Directors or persons who are at the helm of affairs, registration certificate from the Registrar of the state and copies Service Tax and Central Excise Registration Certificate.

10.6 In case of Joint Stock Companies registered under the Indian Companies Act, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name,

residential address, E-mail and telephone numbers of all the Directors or persons who are at the helm of affairs, Certificate of Incorporation from the Registrar of Companies, Memorandum and Articles and copies of Service Tax and Central Excise Registration Certificate.

10.7 In case of Trusts registered under the Indian Trust Act, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Trustee or persons who are at the helm of affairs, registration certificate from the Registrar of the state, Trust Deed and copies Service Tax and Central Excise Registration Certificate.

11.0 The selected bidder will be required to enter into a formal contract, which will be based on their bid and O.I.L's Standard Form of Contract.

12.0 The successful bidder shall furnish a Performance Security Deposit in the form of Demand Draft / Banker's Cheque / Bank Guarantee as specified above before signing the formal contract. The Performance Security Deposit will be refunded to the Contractor after satisfactory completion of the work, but a part or whole of which shall be used by the Company in realization of liquidated damages or claims, if any or for adjustment of compensation or loss due to the Company for any reason. This Security Money shall not earn any interest.

13.0 Time will be regarded as the essence of the Contract and the failure on the part of the Contractor to complete the work within the stipulated time shall entitle the Company to recover liquidate damages and / or penalty from the Contractor as per terms of the tender /contract.

14.0 The contractor will be required to allow OIL officials to inspect the work site and documents in respect of the workers payment.

15.0 **BACKING OUT BY BIDDER:** In case any bidder withdraws their bid within the bid validity period, Bid Security will be forfeited and the party will be debarred for a period of 2(two) years from the date of withdrawal of bid.

16.0 **BACKING OUT BY L-1 BIDDER AFTER ISSUE OF LOA:** In case LOA issued is not accepted by the L1 bidder or the Performance Security is not submitted as per the terms of the contract within the time specified in the Bid Document, the Bid Security shall be forfeited and the bidder shall be debarred for 2 (two) years from the date of default.

17.0 **FURNISHING FRAUDULENT INFORMATION/DOCUMENT:** If it is found at any time that, a Bidder / Contractor has / had furnished fraudulent documents / information, the Bid Security / Performance Security shall be forfeited and the bidder / contractor shall be debarred for a period of three (03) years from the date of detection of such fraudulent act, besides legal action.

18.0 **The tender will be governed by:**

Forwarding Letter.

Instruction to Bidders

BRC-BEC-Bid Rejection Criteria & Bid Evaluation Criteria.

Part-I - General Conditions of Contract. (GCC)

Part-II - Schedule of Work, Unit and Quantity (SOQ)

Part-III - Special Conditions of Contract (SCC)

Part-IV - Schedule of company's Plants, Materials and Equipments

Part-V - Safety Measures (SM)

Part-VI - Integrity Pact-**Not Applicable**

Price Bidding Format

Proformas and Annexures

SPECIAL NOTE:

Please note that all tender forms (**Forwarding Letter, BRC-BEC – Bid Rejection Criteria & Bid Evaluation Criteria, Part – I / General Conditions of Contract / GCC, Part-II / Schedule of Work, Unit and Quantity / SOQ, Part-III / Special Conditions of Contract / SCC, Part-IV / Schedule of Company's Plants, Materials and Equipments / SCPME, Part-V / Safety Measures / SM, Price Bid**) 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 Contract, Contracts Department, Oil India Limited, Duliajan- 786602.

a) **ORIGINAL BID SECURITY (Only in case of Bidder(s) submitting Bid Security in the form of Bank Draft / Banker's Cheque/ Bank Guarantee)**

A scanned copy of Bid Security should also be uploaded along with the Un-priced Techno-Commercial Bid documents.

b) ANY OTHER DOCUMENT REQUIRED TO BE SUBMITTED IN ORIGINAL AS PER TENDER REQUIREMENT.

Scanned copy(s) of the same should also be uploaded along with the Un-priced Techno-Commercial Bid documents.

The above documents including the Original Bid Security (in case of bidders submitting Bid Security in the form of Bank Draft / Banker's Cheque/ Bank Guarantee) must be received at OIL's Head-Contract's office at Duliajan on or before 12.45 Hrs (IST) on the bid closing date failing which the bid shall be rejected.

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. Offers sent without the requisite value of prescribed bid security (if called for in the bid) in original will be ignored straightway.

19.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the "Un-Priced Techno-Commercial" 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 Technical Bid is to be submitted as per Scope of Work & Technical Specification of the tender. **The Price Bid rates shall be quoted per unit as specified in the "PRICE BIDDING FORMAT" attached under "Notes and Attachments" tab in the main bidding engine of OIL's e-Tender portal. The price quoted in the "PRICE BIDDING FORMAT" will only be considered for evaluation.**

20.0 In Technical Bid opening, only "Technical RFx" Tab Page will be opened. Therefore, the bidder should ensure that Technical bid is uploaded under "Technical RFx Response" Tab Page only. **No price should be given under Technical RFx; otherwise the offer will be rejected. Please go through the help document provided in OIL's e-Portal, in detail before uploading the document.**

NB: All the Bids must be Digitally Signed using "Class 3" digital signature certificate with Organizations 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.

22.0 SCREEN SHOTS:

Display RFX Response:

Go to this Tab “Technical RFX Response” for Uploading “Un-priced Techno-commercial Bid”.

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

RFX Response Number 60006452 RFX Number TEST2 Status Submitted 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 4

Basic Data | Questions

Event Parameters

Currency: Indian Rupee

Detailed Price Information: Price with Conditions

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

Partners and Delivery Information

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

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

Edit RFX Response:

BID ON “EDIT” MODE

Area for uploading Un-Priced Techno-Commercial Bid*

Area for uploading Priced Bid**

Submit | Read Only | Print Preview | Check | Technical RFX Response | Close | Save | Verify signature of Response | Sign Response

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 5

Notes and Attachments

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

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

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 Price Bid. 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.

23.0 OIL now looks forward to your active participation in the IFB.

**OIL INDIA LIMITED
(A GOVT. OF INDIA ENTERPRISE)
CONTRACTS DEPARTMENT, DULIAJAN
DISTRICT: DIBRUGARH (ASSAM), PIN-786602**

**IFB NO. CDI7201P16
INSTRUCTION TO BIDDERS**

1.0 Bidder shall bear all costs associated with the preparation and submission of bid. Oil India Limited, hereinafter referred to as 'Company', will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

2.0 BIDDING DOCUMENTS:

2.1 The services required, bidding procedures and contract terms are prescribed in the Bidding Documents. This Bidding Document includes the following:

- a) A forwarding letter highlighting the following points
 - (i) Company's IFB No.
 - (ii) Description of Service
 - (iii) Bid closing date and time
 - (iv) Bid opening date, time and place
 - (v) Bid submission place
 - (vi) The amount of Bid Security
 - (vii) The amount of Performance Guarantee
 - (viii) Quantum of liquidated damages for default in timely mobilizations
- b) Instructions to Bidders
- c) BRC/BEC
- d) General Conditions of Contract (GCC): **Part-I**
- e) Schedule of Work, Unit, Quantities (SOQ): **Part- II**
- f) Special Conditions of Contract (SCC): **Part-III**
- g) Schedule of Company's Plants, Materials and Equipments (SCPME): **Part-IV**
- h) Safety Measures (SM): **Part-V**
- i) Integrity Pact: **Part-VI** [Not applicable for this Tender]
- j) Price Bidding Format (Attached under “**Notes and Attachments**” tab in the main bidding engine of OIL's e-Tender portal).
- k) Proformas & Annexures.

2.2 The bidder is expected to examine all instructions, forms, terms and specifications in the Bid document. Failure to furnish all information required in the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be at the Bidder's risk & responsibility and may result in the rejection of its bid.

3.0 TRANSFERABILITY OF BID DOCUMENTS:

3.1 Bid Documents are non-transferable. Bid can be submitted only in the name of the bidder in whose name the Bid Document has been issued.

3.2 Unsolicited offers will not be considered and will be rejected straightway.

4.0 AMENDMENT OF BIDDING DOCUMENTS:

4.1 At any time prior to the deadline for submission of bids, the company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuance of an Addendum.

4.2 The Addendum will be sent in writing through post / courier / Fax / e-mail to all prospective Bidders to whom Company has sent the bid documents and also be uploaded in the OIL's e-portal in the “Technical RFx” area under the tab “External Area ➔ Amendments”. The company may, at its discretion, extend the deadline for bid submission for any reason. Bidders shall also check OIL's E-Tender portal [“Technical RFx” area under the tab “External Area ➔ Amendments”] for any amendments to the bid documents before submission of their bids.

5.0 PREPARATION OF BIDS

5.1 LANGUAGE OF BIDS: The bid as well as all correspondence and documents relating to the bid exchanged between the Bidder and the Company shall be in English language, except that any printed literature may be in another language provided it is accompanied by an English translated version, which shall govern for the purpose of bid interpretation.

5.2 DOCUMENTS COMPRISING THE BID:**(A) UN-PRICED TECHNO-COMMERCIAL BID:**

- (i) Bid Documents duly filled up as indicated.
- (ii) Complete technical details / specifications of the equipment with catalogue, etc. as per tender requirement.
- (iii) Documentary evidence established in accordance with BRC / BEC part.
- (iv) Statement of Non-Compliance (if any).
- (v) Bid Security (scanned copy). Hard copy of original Bid Security (Only in case of bidder(s) submitting bid security in the form of Bank Draft / Banker's Cheque/ Bank Guarantee) should be sent separately to reach on or before **12.45 Hrs (IST) on the bid closing date failing which the bid shall be rejected.**
- (vi) Any other document as per tender requirement (scanned copy). Hard copy(s) of the same, if called for in the tender, should be sent separately to reach on or before **12.45 Hrs (IST) on the bid closing date failing which the bid shall be rejected.**

Note: Please note that no price details should be uploaded in UN-PRICED TECHNO-COMMERCIAL BID under “Technical RFx Response” Tab Page.

(B) PRICED BID:

The Priced Bid shall contain the rates / prices along with the currency and any other commercial information pertaining to the rates / prices. Bidder shall quote their rates / prices in the “PRICE BIDDING FORMAT” attached under “**Notes and Attachments**” tab in the main bidding engine of OIL’s e-Tender portal. The price quoted in the “PRICE BIDDING FORMAT” will only be considered for evaluation.

Bidder must include all liabilities including statutory liabilities (but excluding Service Tax) in their quoted rates. The rates shall be fixed and firm for the entire tenure of the contract and shall be binding on both the parties. No changes in these rates shall be allowed under any circumstances during the tenure of this service agreement except as mentioned in the Bid Document.

6.0 PERIOD OF VALIDITY OF BIDS:

6.1 The Bid must be valid for 180 (One hundred & eighty) days from the date of opening of the tender.

6.2 In exceptional circumstances, OIL may solicit the Bidder's consent to an extension of the period of validity. The request and the response thereto shall be made in writing (or by Fax). A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request will neither be required nor permitted to modify their bid.

7.0 FORMAT AND SIGNING OF BID:

7.1 The original and all copies of the bid shall be typed or written in indelible inks and shall be signed digitally by the Bidder to bind the Bidder to the contract.

8.0 SUBMISSION OF BIDS:

8.1 Bids are to be submitted online through OIL’s E-procurement portal with digital signature. The bid and all attached documents should be digitally signed by the bidder using “Class 3 digital certificate with organization’s Name” digital certificates [e commerce application (Certificate with personal verification and Organization Name)] as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India while uploading the bid.

Digital Signature Certificates having “Organization Name” field as “Personal” are not acceptable. However, aforesaid Digital Signature Certificates having Bidder’s Name in the “Organization Name” field are acceptable.

The bid including all uploaded documents shall be digitally signed by duly authorized representative of the bidder to bind the Bidder to the contract. The authenticity of above digital signature shall be verified through authorized CA after bid opening and in case the digital signature used for signing is not of “Class-3 with organization’s name”, the bid will be rejected.

Bidder is responsible for ensuring the validity of digital signature and its proper usage by their employees.

8.2 Any person signing the Bid or any other document in respect of this Bid Document or other relevant documents on behalf of the Bidder without disclosing his authority to do so shall be deemed to have the authority to bind the Bidder. If it is discovered at any time that the person so signing has no authority to do so, the Company (OIL) may, without prejudice to any other right or remedy, cancel his Bid or Contract and hold the Bidder liable to the Company (OIL) for all costs and damages arising from the cancellation of the Bid or Contract including any loss which the Company (OIL) may sustain on account thereof.

8.3 Timely submission of the bids is the responsibility of the Bidder and Bids should be submitted before the bid closing date and time. Company shall not be responsible for any delay.

8.4 E-mail/ Fax/ Telex/Telegraphic/Telephonic offers will not be accepted.

8.5 Bidder shall submit the Bid, duly completed in terms of the Bid Document.

8.6 Before submission of Bids, Bidders are requested to make themselves fully conversant with all Conditions of the Bid Document and other relevant information related to the works to be executed under this contract.

9.0 DEADLINE FOR SUBMISSION OF BIDS:

9.1 Bids should be submitted on-line up to 11.00 AM (IST) (Server Time) on the Bid Closing date mentioned in the Forwarding Letter. Bidders will not be permitted by System to make any changes in their bid after the bid has been uploaded by the bidder. Bidder may however request the administrator through the system for returning their bids 03(three) days before the bid closing date and time for re-submission except in condition mentioned in clause 12.1. But, no such request would be entertained once the due date for submission of bids has been reached and bids are opened.

9.2 No bid can be submitted after the submission deadline is reached. The system time displayed on the e-procurement web page shall decide the submission deadline.

9.3 The documents in physical form must be received by Company at the address specified in the “Forwarding Letter” on or before the Bid opening Date & Time mentioned in the "Forwarding Letter". Timely delivery of the same at the address mentioned in the Forwarding Letter is the responsibility of the Bidders.

10.0 LATE BIDS:

10.1 Bidders are advised in their own interest to ensure that their bids are uploaded in system before the closing date and time of the bid. Any Bid received by the Company after the Bid Closing Date & Time stipulated by the Company shall be rejected.

11.0 MODIFICATION AND WITHDRAWAL OF BIDS:

11.1 The Bidder after submission of bid may modify or withdraw its bid by written notice before 03(Three) working days prior to bid closing date.

11.2 A withdrawal notice must also be sent by fax / e-mail but followed by a signed confirmation copy, postmarked not later than the deadline for submission of bids.

11.3 No bid can be modified / withdrawn subsequent to the deadline for submission of bids.

11.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of bid validity. Withdrawal of any bid within validity period will lead to forfeiture of his / her / their Bid Security Deposit in full and debarred from participation in future tenders, at the sole discretion of the company.

12.0 EXTENSION OF BID SUBMISSION DATE:

12.1 Normally no request for extension of Bid Closing Date & Time will be entertained. However, OIL at its discretion, may extend the Bid Closing Date and / or Time due to any reasons. In case of receipt of only one Bid on the Bid Closing Date and Time, OIL may extend the Bid Closing / Opening Date by 2(two) weeks. However, the bidder whose bid has been received within the bid closing date and time will not be allowed to revise their Bid / prices. Withdrawal of such Bid will also not be permitted.

13.0 BID OPENING AND EVALUATION:

13.1.1 The Technical bid will be opened on scheduled Bid opening date & time in the presence of any attending Bidder(s) or their Authorized Representative, if any. However, an authorized letter (format given in Proforma Section) from the Bidder must be produced by Bidder's representative at the time of opening of Tender, without which such representative won't be allowed to attend the opening of Tenders. Only one representative against each Bid will be allowed to attend the bid opening. Attending Bidder(s) & Authorized Representative(s) will have to sign a register evidencing their presence.

In Technical bid opening date, only "Technical RFx" Tab Page will be allowed to be opened by the system. Bidders therefore should ensure that Un-priced Techno-Commercial bid is uploaded under "Technical RFx Response" Tab Page only.

13.1.2 In case of two bid system, after the evaluation of the Technical Bids, the Price Bids of the technically qualified Bidders will be opened. The opening Date and Time will be intimated to the technically qualified Bidders in due course. Price bids will be opened in the same procedure as mentioned in Para 13.1.1 above.

13.2 In case it happens to be a bundh / holiday, the tender will be opened on the next working day (except Saturday). Accordingly, Bid Closing Date / time will get extended up to the next working day and time (except Saturday).

13.3 Bid for which an acceptable notice of withdrawal has been received pursuant to Clause 11.0 shall not be opened. OIL shall examine bids to determine whether they are complete, whether requisite Bid Securities have been furnished, whether documents have been properly signed and whether the bids are generally in order.

13.4 OIL shall prepare, for its own records, minutes of bid opening including the information disclosed to those present in accordance with the sub-clause 13.3

13.5 To assist in the examination, evaluation and comparison of bids, normally no clarifications shall be sought from the Bidders. However, for assisting in the evaluation of the bids especially on the issues where the Bidder confirms compliance in the evaluation and contradiction exists on the same issues due to lack of required supporting documents in the Bid (i.e. document is deficient or missing), or due to some statement at other place of the Bid (i.e. reconfirmation of confirmation) or vice versa, clarifications may be sought by OIL at its discretion. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

13.6 Prior to the detailed evaluation, OIL will determine the substantial responsiveness of each bid to the requirement of the Bidding Documents. For purpose of these paragraphs, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Document without material deviations or reservation. A material deviation or reservation is one which affects in any way substantial way the scope, quality, or performance of work, or which limits in any substantial way, in-consistent way with the bidding documents, the Company's right or the bidder's obligations under the contract, and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantial

responsive bids. OIL's determination of bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.

13.7 A Bid determined as not substantially responsive will be rejected by the Company and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

13.8 The Company may waive minor informality or nonconformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver, does not prejudice or affect the relative ranking of any Bidder.

14.0 EVALUATION AND COMPARISON OF BIDS:

14.1 OIL will evaluate and compare the bids as per Bid Evaluation Criteria (BEC) of the bidding documents.

14.2 DISCOUNTS / REBATES: Unconditional discounts / rebates, if any, given in the bid or along with the bid will be considered for evaluation.

14.3 Post bid or conditional discounts / rebates offered by any bidder shall not be considered for evaluation of bids. However, if the lowest bidder happens to be the final acceptable bidder for award of contract, and if they have offered any discounts / rebates, the contract shall be awarded after taking into account such discounts / rebates.

14.4 Conditional bids are liable to be rejected at the discretion of the Company.

15.0 CONTACTING THE COMPANY:

15.1 Except as otherwise provided in Clause 14.0 above, no Bidder shall contact OIL on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded except as required by OIL vide sub-clause 13.5.

15.2 An effort by a Bidder to influence OIL in the bid evaluation, bid comparison or Contract award decisions may result in the rejection of their bid.

16.0 AWARD CRITERIA:

16.1 OIL will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

17.0 OIL'S RIGHT TO ACCEPT OR REJECT ANY BID:

17.1 OIL reserves the right to accept or reject any or all bids and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder, or bidders or any obligation to inform the affected bidder of the grounds for OIL's action.

18.0 NOTIFICATION OF AWARD:

18.1 Prior to the expiry of the period of bid validity or extended validity, OIL will notify the successful Bidder in writing by registered letter or by cable or telex or fax or e-mail (to be confirmed in writing by registered / couriered letter) that its bid has been accepted.

19.0 SIGNING OF CONTRACT:

19.1 The successful bidders(s) shall be notified by the Company of its intention to enter into an Agreement with him/her/them on the basis of his/her/their acceptance of the offer. Such notification shall be treated as a "Letter of Award (LOA)".

19.2 Within 2 Weeks from the date of issue of Letter of Award (LOA), the successful Bidder(s) will be required to pay an interest free Performance Security by way of Demand Draft / Banker's Cheque / Bank

E-TENDER NO. CDI7201P16**INSTRUCTION TO BIDDERS**

Guarantee (in specified format) favouring "OIL INDIA LIMITED" payable at "DULIAJAN" from any Nationalised Bank. Upon furnishing of the Performance Security, the successful Bidder(s) will be required to enter into a formal Service Agreement based on the instant tender on the OIL Standard forms of agreement.

19.3 This Performance Security must be valid for six months after the date of expiry of the tenure of the contract. In the event of contract being extended within the provisions of the contract agreement, the contractor will have to extend suitably the validity of the "Security Deposit" for the extended period.

19.4 The "Performance Security" will be refunded to the contractor within six months of satisfactory completion of works under the contract (including extension, if any), but part or whole of which shall be used by the Company in realisation of liquidated damages or claims, if any or for adjustment of compensation or loss due to the Company for any reason.

19.5 Failure of the successful bidders to comply with the conditions as specified in Para 19.2 above would render him liable for rejection and in turn forfeiture of Bid Security apart from any other actions the Company may take against him at its sole discretion. The party shall also be debarred for a period of 2(two) years from the date of default.

20.0 FURNISHING FRAUDULENT INFORMATION / DOCUMENTS:

If it is found that a bidder has furnished fraudulent information / documents, it shall constitute sufficient ground for annulment of the award and the party shall be debarred for a period of 3(three) years from the date of detection of such fraudulent act besides the legal action.

21.0 In the event of awarding contract the Contractor shall have to submit Invoice of Service Tax as per the following Format

(Format of Invoice (As per Rule 4A (1) of the Service Tax Rule's 1994)

TAX INVOICE

Name of the Service Provider.....

Address of the Service Provider.....

Service Tax Regn. No of the service provider.....

Name & address of the Service Receiver

Oil India Limited, Duliajan, Assam

Invoice Serial No.....

Invoice Date.....

Particulars	Amount (Rs)
Description of the service provided or agreed to be provided (e.g. AMC Bill against Contract No.....for the period.....)	A
Add service Tax 12.36 % on (A) above(In case of taxable value of service is not 100%, than specify the value of taxable service and apply 12.36 % of the qualifying amount) (e.g. if the value of service is only 40%, than service tax should be calculated at 12.36% on 40% of the value declared at (A) above.)	B
Total amount (Including service Tax) (A + B)	C
Less: Service Tax Payable by Oil India Limited under reverse charge	D
Net Bill Amount	E

Signature of Proprietor/partner

1.0 BID REJECTION CRITERIA (BRC):

The bid shall conform generally to the specifications and terms and conditions given in the Bid Documents. Bids will be rejected in case services offered do not conform to the required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bid to the stipulated specifications, the following mandatory requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected. All the documents related to BRC must be submitted along with the Techno-Commercial Bid.

1.1.1 Bidder must submit all necessary documents relating to his experience in any LPG plant, otherwise bid will be rejected.

1.1.2 Bidder must have relevant experience in carrying out similar nature of job as defined in this tender, in any LPG Plant, Hydrocarbon process plants, Petrochemical Plants, Fertilizers etc. in PSUs/ Central Govt./ State Govt./ reputed Private sector/ Multinational Petroleum sector in last 7(seven) years ending **30.04.2015** and documentary evidence of experience and also successful completion certificate of the jobs must be submitted otherwise bid will be rejected.

1.1.3 Bidder shall have to quote directly and not through any agent. Offers made by their agents on behalf of their principals/ undertaking will be rejected. Similarly, bids received from unsolicited parties shall be rejected.

1.1.4 Bidder shall provide documentary evidence in terms of -

- (a) Work order and
- (b) Job completion certificate(s) from client about experience of having successfully completed "Similar Works" during last 7 years ending **30.04.2015** should be either of the following:
 - i) Three similar completed works each costing not less than the amount equal to **Rs. 19.71 lakhs (Rupees Nineteen Lakhs Seventy One Thousand only)**
OR
 - ii) Two similar completed works each costing not less than the amount equal to **Rs. 24.64 lakhs (Rupees Twenty Four Lakhs Sixty Four Thousand only)**
OR
 - iii) One similar completed work costing not less than the amount equal to **Rs. 39.42 lakhs (Rupees Thirty Nine Lakhs Forty Two Thousand only)**

"**Similar Works**" means protective painting job in LPG Recovery Plant or LPG Filling Plant or Refinery or Petrochemicals or Gas Processing Plant etc. in Oil PSU/ Oil Public Limited Companies etc.

1.1.5 The bidder should have an average Annual turnover, during the last 3 (three) financial years ending **31.03.2014** as per Audited Annual Reports, of at least **Rs. 14.78 lakhs (Rupees Fourteen Lakhs Seventy Eight Thousand only)**. For proof of Annual turnover, attested/ self attested copy of the either of the following documents must be submitted along with the bid:

- (a) Audited Profit & Loss account and Balance Sheet
OR
- (b) Certification from Chartered / Cost Accountant firm indicating the Membership Number & Firm Registration Number.

1.2 COMMERCIAL -

1.2.1 The bids are to be submitted in single stage under 2 (two) bid system i.e. Un-priced Techno-Commercial Bid and Price Bid together. Only the Price Bid should contain the quoted price.

1.2.2 The price quoted by the successful bidder must be firm during the performance of the contract and not subject to variation on any account except as mentioned in the bid document. Any bid submitted with adjustable price quotation other than the above will be treated as non-responsive and rejected.

1.2.3 Bid security shall be furnished as a part of the Techno Commercial Un-priced Bid. The amount of bid security should be as specified in the forwarding letter. Any bid not accompanied by a proper bid security will be rejected.

Note: In case the Bidder submits Bid security in the form of Bank Guarantee (BG); the BG must be valid for minimum 210 days from the date of Technical bid opening i.e minimum up to **18.01.2016**.

1.2.4 Bids received after bid closing date and time will be rejected.

1.2.5 The bid documents are not transferable. Bid made by parties who have not purchased the bid document from the company will be rejected.

1.2.6 Any bid received in the form of Telex/Cable/Fax/E-mail will not be accepted.

1.2.7 Bids shall be typed or written in indelible ink. The bidder or his authorized representative shall sign on all pages, failing which the bid will be rejected.

1.2.8 Bids shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by bidder, in which case such corrections shall be initiated by the persons(s) signing the bid. However, white fluid should not be used for making corrections. Any bid not meeting this requirement shall be rejected.

1.2.9 Any bid containing false statement will be rejected and action will be taken by Company as per Bid Document.

1.2.10 Bidders must quote clearly and strictly in accordance with the price schedule outlined in **Price Bidding Format attached under “Notes and Attachments” tab** in the main bidding engine of OIL’s e-Tender portal; otherwise the bid will be rejected. All other techno-commercial documents other than price details to be submitted with Un-priced Techno-Commercial Bid as per tender requirement in the c-Folder link (collaboration link) under “Technical RFx Response” Tab Page only.

1.2.11 Bidder must accept and comply with the following clauses as given in the Tender Document in toto, failing which offer will be rejected:

- i)** Performance Guarantee Bond Clause
- ii)** Force Majeure Clause
- iii)** Tax liabilities Clause
- iv)** Arbitration Clause
- v)** Acceptance of Jurisdiction and Applicable Law
- vi)** Liquidated Damage cum Penalty clause

1.2.12 There should not be any indication of price in the Un-priced Techno-Commercial Bid. A bid will be straightway rejected if this is given in the Un-priced Techno-Commercial Bid.

1.2.13 Bid received with validity of offer less than 180 (one hundred eighty) days from the date of Technical Bid opening will be rejected.

1.2.14 The Company also reserves the right to cancel / withdraw the Tender without assigning any reasons to the bidders. The bidder must confirm their acceptance to this clause in their respective bids.

2.0 BID EVALUATION CRITERIA (BEC):

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

2.2 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made on the basis of total amount quoted for the items (i.e. schedule of works, units, quantity, rates) of the tender.

2.3 In case of identical lowest offered rate by more than 1(one) bidder, the selection will be made by draw of lot between parties offering the same lowest price.

3.0 GENERAL:

3.1 In case bidder takes exception to any clause of bidding document not covered under BEC/BRC, then the Company has the discretion to load or reject the offer on account of such exception if the bidder does not withdraw / modify the deviation when / as advised by company. The loading so done by the company will be final and binding on the bidders. No deviation will however be accepted in the clauses covered under BRC.

3.2 To ascertain the substantial responsiveness of the bid the Company reserves the right to ask the bidder for clarification in respect of clauses covered under BEC/BRC also and such clarifications fulfilling the BEC/BRC clauses in toto must be received or before the deadline given by the company, failing which the offer will be summarily rejected. However, mere submission of such clarification shall not make the offer responsive, unless company is satisfied with the substantial responsiveness of the offer.

3.3 If any of the clauses in the BRC contradict with other clauses of bidding document elsewhere, the clauses in the BRC shall prevail.

3.4 Bidder(s) must note that requisite information(s)/financial values etc. as required in the BRC & Tender are clearly understandable from the supporting documents submitted by the Bidder(s); otherwise Bids shall be rejected.

3.5 OIL will not be responsible for delay, loss or non-receipt of applications for participating in the bid sent by mail and will not entertain any correspondence in this regard.

3.6 The originals of such documents [furnished by bidder(s)] shall have to be produced by bidder(s) to OIL as and when asked for.

**OIL INDIA LIMITED
(A GOVT. OF INDIA ENTERPRISE)
CONTRACTS DEPARTMENT, DULIAJAN
DISTRICT: DIBRUGARH (ASSAM), PIN-786602
TEL: (91) 374-2800548, FAX: (91) 374-2803549
Website: www.oil-india.com**

DESCRIPTION OF WORK/SERVICES:-

PROTECTIVE PAINTING OF PROCESS EQUIPMENT, PIPINGS, STORAGE VESSELS, STRUCTURES, ETC. OF LPG RECOVERY AND FILLING PLANT.

GENERAL CONDITIONS OF CONTRACT (GCC)

MEMORANDUM OF AGREEMENT made this _____ day of _____ Between OIL INDIA LIMITED a Company incorporated under the Companies Act 1956 and having its Registered Office at Duliajan in the District of Dibrugarh, Assam (hereinafter called Company) of the one part and Shri/Smti _____ and Shri/Smti _____ carrying on business as partners /proprietor under the firm name and style of M/s. _____ with the main Office at _____ in the District of _____ aforesaid (hereinafter called 'Contractor') on the other part.

WITNESSETH:

1. a) The contractor hereby agrees to carry out the work set down in the Schedule of work which forms part-II of this Contract in accordance with the 1968 General Conditions of Contract of Oil India Limited and General Specifications read in conjunction with any drawings and Particular Specifications & instructions which forms Part-III of the contract utilizing any materials/services as offered by the Company as per Part-IV of the contract at LPG Recovery & Filling Plant.

b) In this Contract all words and expressions shall have the same meaning as are respectively assigned to them in the 1968 General Conditions of Contract of Oil India Limited which the Contractor has perused and is fully conversant with before entering into this Contract.

c) The clauses of this contract and of the specifications set out hereunder shall be paramount and in the event of anything herein contained being inconsistent with any term or terms of the 1968 General Conditions of Contract of Oil India Limited, the said term or terms of the 1968 General conditions of Contract to the extent of such inconsistency, and no further, shall not be binding on the parties hereto.

2. The contractor shall provide all labour, supervision and transport and such specified materials described in part-II of the Contract including tools and plants as necessary for the work and shall be responsible for all royalties and other levies and his rates shall include for these. The work executed and materials supplied shall be to the satisfaction of the Company's Engineer and Contractor's rates shall include for all incidental and contingent work which although not specifically mentioned in this contract are necessary for its completion in a sound and workman like manner.

3. The Company's Engineer shall have power to:

a) Reduce the rates at which payments shall be made if the quality of work although acceptable is not up to the required standard set forth in the OIL Standard Specifications which have been perused and fully understood by the Contractor.

b) Order the Contractor to remove any inferior material from the site and to demolish or rectify any work of inferior workmanship, failing which the Company's Engineer may arrange for any such work to be demolished or rectified by any other means at the Contractor's expenses.

c) Order the Contractor to remove or replace any workman who he (The Engineer) considers incompetent or unsuitable; the Engineer's opinion as to the competence and suitability of any workman engaged by the Contractor shall be final and binding on the Contractor.

d) Issue to the Contractor from time to time during the progress of the work such further drawings and instructions as shall be necessary for the purpose of proper and adequate execution and maintenance of the works and the Contractor shall carry out and be bound by the same.

e) Order deviations in Part II and III of this Contract. All such deviation orders shall be in writing and shall show the financial effect, if any, of such deviation and whether any extra time is to be allowed.

4. The Contractor shall have no claim against the company in respect of any work which may be withdrawn but only for work actually completed under this contract. The contractor shall have no objection to carry out work in excess of the quantities stipulated in Part-II if so ordered by the company at the same rates, terms and conditions.

5. The Company reserves the right to cancel this Contract at any time upon full payment of work done and the value of the materials collected by the contractor for permanent incorporation in the work under this contract particularly for execution of this contract up to the date of cancellation of the Contract. The valuation of the work done and the materials collected shall be estimated by the company's Engineer in presence of the contractor. The Contractor shall have no claim to any further payment whatsoever. The valuation would be carried out exparte if Contractor fails to turn up despite reasonable notice which will be binding on the Contractor.

6. The Contractor hereby undertakes to indemnify the Company against all claims which may arise under the under noted Acts:-

- i) The Mines Act.
- ii) The Minimum Wages Act, 1948.
- iii) The Workman's Compensation Act, 1923.
- iv) The Payment of wages Act, 1963.
- v) The Payment of Bonus Act, 1965.
- vi) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed there under.
- vii) Employees Pension Scheme, 1995.
- viii) Inter-State Migrant (Regulation of Employment and Condition of Service) Act. 1979.
- ix) The Employees Provident Fund and Miscellaneous Provisions Act, 1952.
- x) AGST Act.
- xi) Service Tax Act.

or any other Acts or Statute not here in above specifically mentioned having bearing over engagement of workers directly or indirectly for execution of work. The Contractor shall not make the Company liable to reimburse the Contractor for the statutory increase in the wage rates of the Contract Labour appointed by the Contractor. Such Statutory increase in the wage rates of Contract Labour shall be borne by the contractor.

7. The Contractor shall clear away all rubbish and surplus material from the site on completion of work and shall leave the site clean and tidy.

8. The duration of the contract shall be **52 weeks** from the commencement date mentioned in the work order. The Contractor must complete the work as mentioned in PART – III (SPECIAL CONDITIONS OF CONTRACT: SCC) within the contract period. During the currency of the job, the work progress must be commensurate with the time elapsed. In the event of any delay on the contractor's part, he/she will be liable to pay to the company liquidated damages at the rate of 1/2% (Half p.c) per week of the contract price of the item(s) delayed in completion and the maximum value of the liquidated damage will be 7.5% of the contract price of the item(s) delayed provided the item(s) delayed are not critical for commissioning and final utilization of the work. If, however, the item(s) delayed in completion are critical for commissioning and final utilisation of the work then the contractor will be liable to pay liquidated damages by way of penalty at the rate of 1/2% (Half percent) per week of delay of the total contract cost subject to a maximum of 7.5% of total contract cost.

The Chief Engineer's certificate as to the criticality or otherwise of an item shall be final.

The payment of liquidated damages/penalty may be reduced or waived at the sole discretion of the Company whose decision in this regard will be final.

In the event of there being undue delay in execution of the Contract, the Company reserves the right to cancel the Contract and / or levy such additional damages as it deems fit based on the actual loss suffered by the company attributable to such delay. The company's decision in this regard shall be final.

9. In order to promote, safeguard and facilitate the general operational economic in the interest of the Company during the continuance of this contract the Contractor hereby agrees and undertakes not to take any direct or indirect interest and or support, assist, maintain or help any person or persons engaged in antisocial activities, demonstration, riots , or in any agitation prejudicial to the Company's interest and any such even taking shape or form at any place of the Company's works or and its neighbourhood.

10. The tendered all-inclusive Price (the Contract price) is ₹ _____ ***(Not to be filled up by bidder while submitting the offer in c-Folder. This figure will be filled up by OIL at the time of award of the contract to the successful bidder.)*** (₹ _____ only) but the Company shall pay the Contract or only for actual work done at the all inclusive rates set down in the Schedule of work part II of this Contract.

On account payment may be made, not often than monthly, up to the amount of 100% of the value of work done. Final payment will be made only after satisfactory completion of the work. Such final payment shall be based on the work actually done allowing for deviations and any deductions and the measurement shall be checked and certified correct by the Company's Engineer before any such final payment is made.

11. The contractor employing 20 (twenty) or more workmen on any day preceding 12 months shall be required to obtain requisite licence at his cost from the appropriate Licensing Officer before undertaking any Contract work. The Contractor shall also observe the rules & regulations framed under the Contract Labour (Regulation & Abolition) Act.

12. The Company for any reason whatsoever and of which the company shall be sole judge may terminate this Contract with a 24 hours notice in writing to the Contractor and in the event of Company's so doing the clause 5 here of shall prevail and the accounts between the parties will be in accordance therewith finalised.

13. The Contractor will not be allowed to construct any structure (for storage / housing purpose) with thatch, bamboo or any other inflammable materials within any company's fenced area.

14. The Contractor shall ensure that all men engaged by him/her are provided with appropriate protective clothing and safety wear in accordance with regulation 89(a) and 89(b) in the Oil mines Regulations 1984. The Company's representative shall not allow/accept those men who are not provided with the same.

15. All Statutory taxes levied by the Central and State Government or any other competent authority from time to time will be borne by Contractor and the amount of the contract specified in the contract is inclusive of all tax liabilities but excluding Service Tax. Service Tax if applicable shall be, to the Company's account. However, Service Tax portion payable directly by the Service provider (if applicable) shall be reimbursed to the Contractor on the basis of the documentary evidence.

16. The Contractor shall deploy local persons in all works.

17. The Contractor shall not engage minor labour below 18(eighteen) years of age under any circumstances.

18. The Contractor and his/her workmen shall strictly observe the rules and regulations as per Mines Act. (latest editions).

19.1 GENERAL OBLIGATIONS OF COMPANY:

COMPANY shall, in accordance with and subject to the terms and conditions of this contract:

- i) Pay the Contractors in accordance with terms and conditions of the contract.
- ii) Allow access to Contractors and their personnel, subject to normal security and safety procedures, to all areas as required for orderly performance of the work.

20. Special Conditions

a) ~~The amount of retention money shall be released after 6(six) months from the date of issue of completion certificate from concerned department.~~

b) The contractor will be required to allow OIL Officials to inspect the work site and documents in respect of the workers' payment.

c) Contractor(s) whosoever is liable to be covered under the P.F. Act and contract cost is inclusive of P.F., must ensure strict compliance of provisions of Provident Fund and Miscellaneous Provisions Act, 1952 in addition to the various Acts mentioned elsewhere in this contract. Any contractor found violating these provisions will render themselves disqualified from any future tendering. As per terms of the contract, if applicable, the Contractor must deposit Provident Fund Contribution (covering Employee's & Employer's share) with the competent authority monthly under their direct code. The Contractor shall be required to submit documentary evidence of deposit of P.F. Contribution to the Company. In case of failure to provide such documentary evidence, the Company reserves the right to withhold the amount equivalent to applicable P.F. Contribution.

21. ARBITRATION:

Any dispute under this contract will be settled through Arbitration as per Indian Arbitration and Conciliation Act, 1996.

Place of Arbitration: Duliajan

22. FORCE MAJEURE:

Force Majeure (exemption) Clause of the International Chamber of Commerce (ICC Publication No. 421) is hereby incorporated in this contract.

23. I.B. VERIFICATION REPORT AND SECURITY REVIEW:

Contractor will be required to submit the verification report to ascertain character and antecedents from the Civil Administration towards the persons engaged under this contract to the Head of the user Department before engagement.

24. In case of any doubt or dispute as to the interpretation of any clause herein contained, the decision of the Company's Engineer shall be final and binding on the contractor.

25. SET OFF CLAUSE:-

"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 a 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)."

26.0 FURNISHING FRAUDULENT INFORMATION/DOCUMENT:

If it is found that a Bidder/Contractor has furnished fraudulent document/information the party shall be debarred for period of 3(three) years from date of detection of such fraudulent act, besides the legal action.

27.0 LIQUIDATED DAMAGES FOR DELAY IN MOBILISATION AND/ OR COMPLETION OF WORKS AND SERVICES

In normal case of works /service contracts, liquidated damages will be applicable @ 0.5% of the contract value per week or part thereof, for delay in contract mobilization /completion date subject to a maximum ceiling of 7.5% of contract value .

28.0 SUBCONTRACTING:

CONTRACTORS shall not subcontract or assign, in whole or in part, their obligations to perform under this contract, except with COMPANY'S prior written consent.

29.0 MISCELLANEOUS PROVISIONS:

Contractors shall conform in all respects with the provisions of any Statute, Ordinance of Law and the regulations or bye-law of any local or other duly constituted authority which may be applicable to the services and with such rules and regulation public bodies and Companies as aforesaid and shall keep OIL indemnified

against all penalties and liability of every kind for breach of any such Statute, Ordinance or Law, regulation or byelaw.

30.0 LIABILITY:

30.1 Except as otherwise expressly provided, neither Company nor its servants, agents, nominees, Contractors, or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss of or damage to the property of the Contractor and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Company and/or its servants, agent, nominees, assignees, contractors and sub-contractors. The Contractor shall protect, defend, indemnify and hold harmless Company from and against such loss or damage and any suit, claim or expense resulting there from.

30.2 Neither Company nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the Contractor and/or of its contractors or sub-contractor irrespective of how such injury, illness or death is caused and even if caused by the negligence of Company and/or its servants, agents nominees, assignees, Contractors and sub-contractors. Contractor shall protect, defend, indemnify and hold harmless Company from and against such liabilities and any suit, claim or expense resulting there from.

30.3 The Contractor hereby agrees to waive its right to recourse and further agrees to cause their underwriters to waive their right of subrogation against Company and/or its underwrites, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of the Contractor and/or its sub-contractors when such loss or damage or liabilities arises out of or in connection with the performance of the contract.

30.4 The Contractor hereby further agrees to waive its right of recourse and agrees to cause its underwriters to waive their right of subrogation against Company and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Contractor and of its contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the contract.

30.5 Except as otherwise expressly provided, neither Contractor nor its servants, agents, nominees, Contractors or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss or damage to the property of the Company and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. The Company shall protect, defend, indemnify and hold harmless Contractor from and against such loss or damage and any suit, claim or expense resulting therefrom.

30.6 Neither Contractor nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever to whomsoever or injury or illness, or death of any employee of the Company and/or of its contractors or sub-contractors irrespective of how such injury, illness or death is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, contractors and sub-contractors. Company shall protect, defend indemnify and hold harmless Contractor from and against such liabilities and any suit, claim or expense resulting there from.

30.7 The Company agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against Contractor and /or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of Company and/or its contractors or sub-contractors when such loss or damage or liabilities arises out of or in connection with the performance of the contract.

30.8 The Company hereby further agrees to waive its right of recourse and agrees to cause it underwriters to waive their right of subrogation against Contractor and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Company and of its Contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the Contract.

31.0 CONSEQUENTIAL DAMAGE:

Except as otherwise expressly provided, neither party shall be liable to the other for special, indirect or consequential damages resulting from or arising out of the contract, including but without limitation, to loss or profit or business interruptions, howsoever caused and regardless of whether such loss or damage was caused by the negligence (either sole or concurrent) of either party, its employees, agents or sub-contractors.

32.0 INDEMNITY AGREEMENT:

32.1 Except as provided hereof CONTRACTORS agrees to protect, defend, indemnify and hold COMPANY harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of AUDITOR'S employees, agents, Contractors and subcontractors or their employees on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

32.2 Except as provided hereof COMPANY agrees to protect, defend, indemnify and hold CONTRACTORS harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of COMPANY'S employees, agents, Contractor and subcontractors or their employees on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

33.0 APPLICABLE LAW:

33.1 This Contract shall be deemed to be a Contract made under, governed by and construed in accordance with the laws of India for the time being in force and shall be subject to the exclusive jurisdiction of Courts situated at Dibrugarh in Assam.

33.2 The Bidders shall ensure full compliance of various Indian Laws and Statutory Regulations, to the extent applicable for performing under this Contract.

34.0 **TAXES:** Tax levied as per the provisions of Indian Income Tax Act and any other enactment/rules on income derived/payments received under the contract will be on Contractor's account.

34.1 All Statutory taxes levied by the Central and State Government or any other competent authority from time to time shall be on COMPANY'S account. However, liability for payment of such Taxes shall lie on the CONTRACTOR.

35.0 Subsequently Enacted Laws: Subsequent to the date of issue of letter of award if there is a change in or enactment of any law or interpretation of existing law, which results in additional cost/reduction in cost to Contractor on account of the operation under the Contract, the Company/Contractor shall reimburse/pay Contractor / Company for such additional / reduced costs actually incurred.

IN WITNESS whereof the parties hereunto set their hands seals the day and year first written above:-

SIGNED & DELIVERED FOR AND
ON BEHALF OF

(Signature of Contractor or his legal Attorney)

by the hand of

(Full Name of Signatory)

its Partner/Legal Attorney

(Seal of Contractor's Firm)

And in presence of

(Signature of witness)

Date : _____

(Full Name of Signatory)

Address:

SIGNED & DELIVERED FOR & ON
BEHALF OF OIL INDIA LIMITED

(Signature of Acceptor)

Designation _____

Date _____

OIL INDIA LIMITED
(A Government of India Enterprise)
Duliajan, Assam

DESCRIPTION OF WORK/ SERVICE: Protective Painting of Process Equipment, Pippings, Storage Vessels, Structures, etc. of LPG Recovery and Filling Plant

Part-II (SOQ) Schedule of Work, Unit and Quantity

Item No.	Description of Services	UOM	Quantity
10	Protective Painting of Structures	SQUARE METER	5272
20	Protective Painting of Equipment	SQUARE METER	12172

1. Bidder must include all liabilities including statutory liabilities but excluding Service Tax in their quoted rates. Service Tax, if applicable, shall be to the Company's account. However, Service Tax portion payable directly by the Service Provider (if applicable) shall be reimbursed to the Contractor on the basis of the documentary evidence.
2. Contractors are required to raise monthly Service Tax Invoices for reimbursement of Service Tax against the contract. In absence of Service Tax Invoices, Service Tax will not be reimbursed and the consequences of the same shall entirely rest upon the Contractor.
3. The rates shall be quoted per unit as specified in the "PRICE BIDDING FORMAT" attached under "Notes and Attachments" tab. Bidder should note that no pricing information is furnished in the "c-folder" (Un-priced Techno-Commercial Bid) otherwise the bid will be rejected.
4. Mobilisation Period: Within 15 (fifteen) days from the date of issue of Letter of Award(LOA).
5. Location of Work: LPG Recovery & Filling Plant
6. Tenure of Agreement: 1 (One) year from the date of issue of Work Order
7. The quantity mentioned is purely for evaluation purpose only. However, payment shall be made as per actuals.

**OIL INDIA LIMITED
(A Govt. of India Enterprise)
DULIAJAN (ASSAM)**

PART I: PARTICULAR SPECIFICATIONS & INSTRUCTIONS

These technical specifications shall be applicable for the work covered by this contract, over and above and without prejudice to the various codes of practice, standard specifications, etc. it being specifically understood that contractor shall carry out the work in all respects with the best quality of materials and workmanship and in accordance with the best engineering and safety practices under instructions of Engineer-in-charge.

1.0 Scope of Work:

1.1 Scope of work covered in the specification shall include, without being limited to the following:

1.1.1 This specification defines the requirements for surface preparation, selection and application of paints on external surfaces of equipment, vessels, machinery, piping, ducts, steel structures, etc.

1.2 Extent of Works: The following surfaces and materials shall require painting:

- a. All uninsulated C.S. & A.S. equipment like columns, vessels, drums, storage tanks, heat exchangers, pumps, etc.
- b. All uninsulated carbon and low alloy piping, fittings and valves (including painting of identification marks), furnace, ducts and stacks.
- c. All structural steel work, pipe structural steel supports, walkways, handrails, ladders, platforms, etc.
- d. Identification colour bands on all piping as required including insulated aluminium clad, galvanised, SS and nonferrous piping.
- e. Identification lettering/ numbering on all painted surfaces of equipment/ piping, insulated aluminium clad, galvanised, SS and nonferrous piping.
- f. Supply of all primers, paints and all other materials required for painting other than Owner's supply.

2.0 Codes & Standards:

2.1 Without prejudice to the provisions and detailed specifications of the contract, the following codes and standards shall be followed for the work covered by this contract.

- IS-5 : Colours for ready mixed paints and enamels.
IS-101 : Methods of test for ready mixed paints enamels.
IS-2074: Specifications for ready mixed paint, red oxide zinc chrome priming.
IS-2379: Colour codes for identification of pipelines.
IS-2932: Specification for enamel, synthetic, exterior- undercoating & finishing.

2.2 Surface Preparation Standards: Following standards shall be followed for surface preparations:

- 2.2.1** Swedish Standard Institution- SIS-05 5900-1967
2.2.2 Steel Structures Painting Council, USA
2.2.3 British Standards Institution, BS- 4232
2.2.4 National Association of Corrosion Engineers, USA
2.2.5 IS-2379

2.3 The contractor shall arrange, at his own cost, to keep a set of latest edition of above standards and codes at site.

2.4 The paint manufacturer's instructions shall be followed as far as practicable at all times. Particular attention shall be paid to the following:

- a. Proper storage to avoid exposure as well as extremes of temperature.
- b. Surface preparation to the satisfaction of Engineer- in-charge prior to painting.
- c. Mixing and thinning.

- d. Application of paints and the recommended limit on time intervals between coats.

2.5 Any painting work (including surface preparation) on piping or equipment shall be commenced only after the clearance is given by the Engineer-in-charge.

2.6.1 Surface preparation:

Removal of all dirt & darts, oils, grease etc. by wire brushing and sand blasting. Applying priming 1 coat of approved quality of Epoxy based primer like Zinc phosphate and Zinc Silicate over the cleaning preparation of surface as per the requirement of LPG plant.

Method of application by Airless Spray gun & Brush is used (small areas only) D.F.T. per coat 55 to 65 microns approx.

2.6 2 Painting 2 coat of High Build Epoxy based paint:

Painting 2 coat of High Build Epoxy based to have shade as per the requirement of LPG plant.

Method of application by Airless Spray gun & Brush is used (small areas only). Total DFT 215 microns approx.

Thinner paint manufacturer's recommended brand should be used.

All necessary scaffoldings, temporary/ structures etc. as required to have access to the various locations of the plant is to be provided by the contractor at his own cost.

The contractor shall have to provide Elcho meter with calibration facilities for ascertaining the correct DFT (Dry film thickness) at every stage of paintings in LPG plant.

3.0 **Equipment:**

3.1 All tools & materials for cleaning of rusted/corroded surfaces like abrasive tapes, hand tools, brass/steel wool etc. and brushes, rollers, spray guns, scaffolding materials, etc. required to be used shall be suitable for the work and all in good order and shall be arranged by the contractor at site in sufficient quantity.

3.2 All type safety appliances, as required, for carrying out the job in a safe manner shall be arranged by the contractor.

4.0 **Surface Preparation:**

4.1 Adhesion of the paint film to surface depends largely on the degree of cleanliness of the metal surface. Proper surface preparation contributes more to the success of the paint protective system.

4.2 Since safety problems limit the application of other surface preparation procedure, it is recommended that only manual or hand tool cleaning shall be used. Mill scale, rust, rust scale and foreign matter shall be removed fully to ensure that clean and dry surface is obtained. The minimum acceptable standard in case of manual or hand tool cleaning shall be St. 2 or equivalent. Removal of all other contaminants, oil, grease etc. is to be done by use of an aromatic solvent prior to surface cleaning. On completion of cleaning, loose materials shall be removed from the surface by clean rags and surface shall be brushed, swept, dedusted and blown off to remove all loose matter. Finally the surface may be washed with water and dried for effective cleaning.

4.3 Irrespective of the method of surface preparation, the first coat of primer must be applied by brush on dry surface which should cover the crevices, corners, sharp edges etc. This should be done immediately and in any case within 4 hours of cleaning of surface. However, at times of unfavourable weather conditions, the Engineer-in-charge shall have the liberty to control time period, at his sole discretion and/or to insist on re-cleaning, as may be required, before primer application is taken up.

5.0 **Identification of vessels, piping, etc.:**

Equipment number shall be stencilled in black or white on each vessel, column, equipment machinery (insulated or uninsulated) after painting. Line number in black or white shall be stencilled on all the pipe lines of more than one location as directed by engineer-in-charge. Size of letters printed shall be as below:

Column & Vessels -	150 mm (high)
Pump, compressor and other machinery -	50 mm (high)
Piping -	40-150 mm

Storage tanks -

as will be shown.

6.0 Particular Specifications:

6.1 Paint Materials:

Manufacturers shall furnish the characteristics of all paints indicating the suitability for the required service conditions. Primer and finish coats shall be of Class-I quality and shall conform to the following:

- (a) Primer: Redoxide Zinc Chromate Primer
Type & Composition: Single pack, modified phenolic alkyd medium pigmented with redoxide and zinc chromate.
Volume solids: 30-35 %
DFT: 25 microns/coat (min.)
Covering capacity: 12-13 sq.m/lit/coat
- (b) Finish Coats: Synthetic Enamel
Type & Composition: Single pack, alkyd medium pigmented with superior quality water & weather resistant pigments.
Volume solids: 30-40 %
DFT: 20-25 microns/coat
Covering capacity: 16-18 sq.m/lit/coat

6.2 PAINTS:

The paints shall conform to the specifications given above and Class-I quality in their products range of any of the following manufacturers or as approved by CE(LPG):

- (i) Asian Paints (India) Ltd.,
- (ii) British Paints,
- (iii) Johnson & Nicholson,
- (iv) Shalimar paints,
- (v) Berger Paints India Ltd.
- (vi) Goodlass Nerolac Paints Ltd. etc.

The paints are required for use in hazardous area and hence much emphasis will be given to Quality which is the first and foremost criteria. Documentary evidence of those must be submitted. The paints shall conform to the specifications given above and Class-I quality in their products range of any of the above mentioned manufacturers or as approved by CE(LPG).

6.3 All painting materials including primers and thinners brought to site by contractor for application shall be procured directly from manufactures as per specifications and shall be accompanied by manufacturer's test certificates. Paint formulations without certificates are not acceptable.

6.4 All the surfaces shall be applied with two coats of paints.

6.5 Painting shall be carried out as per instruction of the paint manufacturer.

6.6 The peeled off/cracked portions of old painting shall be removed completely as directed by the Engineer-in-charge and one coat of approved primer shall be applied before applying two coats of paint.

6.7 Any defect noticed during the various stages of inspection shall be rectified by the contractor to the entire satisfaction of Engineer-in-charge before proceeding further. Irrespective of the inspection, repair and approval at intermediate stages of work, contractor shall be responsible for making good any defects found during final inspection.

7.0 Special Conditions:

Painting of plant equipment, pipings, storage vessels, etc. in LPG plant is a specialised job compared to normal cosmetic painting as this is intended for protection of the plant equipment from corrosion etc. as per safety and statutory rules. The job will be carried out during running condition of the plant and involves high risk, preparation & execution in terms of erection of scaffolding to a height of 25 meters on process

towers and LPG storage spheres of 15.72 m dia, proper cleaning and surface preparation by manual labour at elevated areas in hazardous zone, painting as per standard procedures to have a shining finish, etc. The job is to be carried out strictly as per standard codes & practices.

7.1 The contractor shall ensure observance of all safety regulations by his workers for working in hazardous area where gas/LPG vapour may be present during normal operation.

7.2 Before starting of the job the contractor shall purchase the paints as given in part II and hand over the material to representative of CE(LPG). The paints will be issued to the contractor during execution of the job as and when required.

7.3 The contractor shall obtain special work permit to be issued daily by the department for working on any part of the plant. As the painting job will be carried out while the plant is in operation, the contractor shall exercise strict supervision/control over his workers in order to avoid inadvertent handling of any fitting/fixture in the plant. The special instructions contained in the work permit shall be strictly followed.

7.4 No overhead work shall be carried out without wearing safety belt, helmet, boot, etc. All contractor's employees must use safety appliances to protect against hazards as and when required under "Work Permit" to carry out the job safely. It will be responsibility of the contractor to provide common safety appliances to his employees.

7.5 Contractor will be responsible for the safety of his personnel and property as well as the safety of personnel & property of the company.

7.6 No hot work including civil jobs like chipping, excavation, etc. which produces sparks or involves ignition should be carried out in the plant area.

7.7 OIL will make periodic checks to ensure compliance of safety rules. In case the contractor does not follow OIL's safety regulations, OIL will have all the right to stop the work.

7.8 A joint record will be maintained at the place of work for the stoppage of work. The work can be stopped by any operating personnel and he shall sign in the register maintained by the contractor but later on the record should be counter-signed by an authorised officer of the Owner. However, for such stoppage of work, no compensation will be paid to the contractor.

7.9 In the event of emergency indicated verbally or by fire alarm all work permits issued to the contractor and his employees will stand cancelled. The contractor's personnel must suspend all job, leave the job in safe condition and withdraw to a safe location.

7.10 The contractor personnel should not cross the fencing and they should work only within the fenced area.

7.11 Necessary advice may be sought on any of the safety matters from safety officer as and when necessary.

7.12 No spark of flame producing appliances or equipment including flash light, transistor will be allowed to be taken inside the plant area and such materials, if brought, must be deposited at the gate with CISF.

7.13 Bringing in or being under the influence of intoxicants or narcotics inside the plant premises is prohibited.

7.14 Any situation likely to affect the safety of any employee or other co-workers must be promptly reported to the engineer-in-charge.

7.15 The scaffolding for overhead works shall be independently erected without support of the process pipings and fittings on the vessels.

- 7.16** Scaffolding shall not be removed before inspection of painting surfaces by the engineer-in-charge.
- 7.17** If painting on any surface/area is not found to be satisfactory, the process of painting shall be repeated by the contractor at no extra cost.
- 7.18** The contractor shall engage adequate number of skilled labourers to complete the job within the stipulated time by painting with brush.
- 7.19** For cleaning purpose brushes made of brass & steel wool/coir abrasive tapes etc. shall be used. Old paint, where required, shall be removed by using approved paint remover and brush etc. Scrapping of the surfaces of vessels/pipings is not permitted. However, if any scrapping is required in some specified areas proper clearance shall be obtained from the Engineer-in-charge before doing so.
- 7.20** The contractor should clean up the working areas regularly during the course of work for purpose of good housekeeping as well as cleaning up the site on completion of the work as directed by Engineer-in-charge.
- 7.21** Payment will be done on actual work carried out to be measured in presence of Engineer-in-charge.
- 7.22** Experience in similar nature of job mentioned above means experience in epoxy/enamel coating job in a LPG running plant.
- 7.23** All the working personnel should have personnel protective equipment/protective clothing such as Industrial safety shoes, helmets, gloves etc which should be provided by the contractor. The contractor and his work personnel should follow all safety rules and regulations.
-

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Contracts, Duliajan
Schedule of Company's Plants, Materials and Equipments

- (i)** All the working personnel of contractor should have personnel protective equipment/protective clothing such as Industrial safety shoes, helmets, gloves etc which should be provided by the contractor.
- (ii)** The contractor must provide scaffoldings in his own cost.
- (iii)** All the paints, primers & related materials are to be supplied by the contractor/party.

**To,
HEAD-CONTRACT
OIL INDIA LIMITED
DULIAJAN-786602**

SUB: SAFETY MEASURES**Description of work/service:**

PROTECTIVE PAINTING OF PROCESS EQUIPMENT, PIPINGS, STORAGE VESSELS, STRUCTURES, ETC. OF LPG RECOVERY AND FILLING PLANT.

Sir,

We hereby confirm that we have fully understood the safety measures to be adopted during execution of the above contract and that the same have been explained to us by the concerned authorities. We also give the following assurances.

a) Only experienced and competent persons shall be engaged by us for carrying out work under the said contract.

b) The names of the authorized persons who would be supervising the jobs on day to day basis from our end are the following:

i) _____

ii) _____

iii) _____

The above personnel are fully familiar with the nature of jobs assigned and safety precautions required.

c) Due notice would be given for any change of personnel under item(b) above.

d) We hereby accept the responsibility for the safety of all the personnel engaged by us and for the safety of the Company's personnel and property involved during the course of our working under this contract. We would ensure that all the provisions under the Oil Mines Regulations, 1984 and other safety rules related to execution of our work would be strictly followed by our personnel. Any violation pointed out by the Company's Engineers would be rectified forthwith or the work suspended till such time the rectification is completed by us and all expenditure towards this would be on our account.

e) We confirm that all persons engaged by us would be provided with the necessary Safety Gears at our cost.

f) All losses caused due to inadequate safety measures or lack of supervision on our part would be fully compensated by us and the Company will not be responsible for any lapses on our part in this regard.

g) We shall abide by the following HSE (Health, Safety & Environmental) POINTS:

GENERAL HEALTH, SAFETY & ENVIRONMENT (HSE) POINTS:

1. It will be solely the Contractor's responsibility to fulfill all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. . Ensure that all sub-contractors hired by him comply with the same requirement as the contractor himself and shall be liable for ensuring compliance all HSE laws by the sub or sub-sub contractors.

2. Every person deployed by the contractor in a mine must wear safety gadgets to be provided by the contractor. The Contractor shall provide proper Personnel Protective Equipment as per the hazard identified and risk assessed for the job and conforming to statutory requirement and company PPE schedule. Safety appliances like protective footwear, Safety Helmet and Full Body harness has to be DGMS approved. Necessary supportive document shall have to be submitted as proof. If the Contractor fails to provide the safety items as mentioned above to the working personnel, the Contractor may apply to the Company (OIL) for providing the same. OIL will provide the safety items, if available. But in turn, OIL will recover the actual cost of the items by deducting from Contractor's Bill. . However, it will be the Contractor's sole responsibility to ensure that the persons engaged by him in the mines use the proper PPE while at work. All the safety gears

mentioned above are to be provided to the working personnel before commencement of the work.

3. The Contractor shall prepare written Safe Operating Procedure (SOP) for the work to be carried out, including an assessment of risk, wherever possible and safe methods to deal with it/them. The SOP should clearly state the risk arising to men, machineries & material from the mining operation / operations to be done by the contractor and how it is to be managed.
4. The contractor shall provide a copy of the SOP to the person designated by the mine owner who shall be supervising the contractor's work.
5. Keep an up to date SOP and provide a copy of changes to a person designated by the Mine Owner /Agent /Manager.
6. Contractor has to ensure that all work is carried out in accordance with the Statute and SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe manner. For work of a specified scope/nature, he should develop and provide to the mine owner a site specific code of practice in line.
7. All persons deployed by the contractor for working in a mine must undergo Mines Vocational Training, initial medical examination, PME. They should be issued cards stating the name of the contractor and the work and its validity period, indicating status of MVT, IME & PME.
8. The contractor shall submit to DGMS returns indicating - Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment of work persons, Number of work persons deployed, how many work persons hold VT Certificate, how many work persons undergone IME and type of medical coverage given to the work persons.
9. The return shall be submitted quarterly (by 10th of April, July, October & January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.
10. It will be entirely the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by company's Installation Manager / Safety Officer / Engineer / Official / Supervisor/Junior Engineer for safe operation.
11. Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the contractor only.
12. Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the contractor.
13. The contractor shall have to report all incidents including near miss to Installation Manager / departmental representative of the concerned department of OIL.
14. The contractor has to keep a register of the persons employed by him/her. The contractor's supervisor shall take and maintain attendance of his men every day for the work, punctually.
15. If the company arranges any safety class / training for the working personnel at site (company employee, contractor worker, etc) the contractor will not have any objection to any such training.
16. The health check up of contractor's personnel is to be done by the contractor in authorized Health Centers as per OIL's requirement & proof of such test(s) is to be submitted to OIL. The frequency of periodic medical examinations should be every five years for the employees below 45 years of age and every three years for employees of 45 years of age and above.
17. To arrange daily tool box meeting and regular site safety meetings and maintain records.

18. Records of daily attendance, accident report etc. are to be maintained in Form B, E, J (as per Mines Rules 1955) by the contractor.

19. A contractor employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omissions at work.

20. A contractor employee must, while at work, cooperate with his or her employer or other persons so far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.

21. Contractor's arrangements for health and safety management shall be consistent with those for the mine owner.

22. In case Contractor is found non-compliant of HSE laws as required company will have the right for directing the contractor to take action to comply with the requirements, and for further non-compliance, the contractor will be penalized prevailing relevant Acts/Rules/Regulations.

23. When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures Company will have the right to direct the contractor to cease work until the non-compliance is corrected.

24. The contractor should prevent the frequent change of his contractual employees as far as practicable.

25. The contractor should frame a mutually agreed bridging document between OIL & the contractor with roles and responsibilities clearly defined.

26. For any HSE matters not specified in the contract document, the contractor will abide the relevant and prevailing Acts/rules/regulations/ pertaining to Health, Safety and Environment.

(Seal)

Yours Faithfully

Date _____

M/s _____
FOR & ON BEHALF OF CONTRACTOR

STATEMENT OF NON-COMPLIANCE (IF ANY)**(Only exceptions/deviations to be rendered)**

1.0 The Bidder shall furnish detailed statement of **exceptions/deviations**, if any, to the IFB stipulations, terms and conditions in respect of each Section of Bid Document in the following format:

Section No.	Clause No. (Page No.)	Non-Compliance	Remarks

Signature of Bidder: _____

Name: _____

NOTE:

OIL INDIA LIMITED expects the bidders to fully accept the terms and conditions of the bid document. However, should the bidders still envisage some exceptions/deviations to the terms and conditions of the bid document, the same should be indicated as per above format and submit along with their bids. If the “**Statement of Non-Compliance**” in the above Proforma is left blank (or not submitted along with the Bid), then it would be constructed that the bidder has not taken any exception/deviation to the IFB requirements.

LETTER OF AUTHORITY FOR ATTENDING BID OPENING

TO
HEAD (CONTRACTS)
OIL INDIA LIMITED
P.O. Duliajan - 786 602
Assam, India

Sir,

Sub: OIL's IFB No. CDI7201P16

I / We _____ confirm that Mr. _____ (Name and address) as authorised to represent us during bid opening on our behalf with you against IFB Invitation No. **CDI7201P16** for **PROTECTIVE PAINTING OF PROCESS EQUIPMENT, PIPINGS, STORAGE VESSELS, STRUCTURES, ETC. OF LPG RECOVERY AND FILLING PLANT.**

We confirm that we shall be bound by all and whatsoever our said representative shall commit.

Yours Faithfully,

Authorised Person's Signature: _____

Name: _____

Signature of Bidder: _____

Name: _____

Date: _____

FORMAT OF BID SECURITY (BANK GUARANTEE)
OR ANY OTHER FORMAT ACCEPTABLE TO OIL

To:
M/s. OIL INDIA LIMITED
For Head (Contracts)
Duliajan, Assam, India, Pin - 786 602.

WHEREAS, (Name of Bidder) _____ (hereinafter called "the Bidder") has submitted their offer Dated _____ for the provision of Hiring services for **PROTECTIVE PAINTING OF PROCESS EQUIPMENT, PIPINGS, STORAGE VESSELS, STRUCTURES, ETC. OF LPG RECOVERY AND FILLING PLANT.** (hereinafter called "the Bid") against OIL INDIA LIMITED, Duliajan, Assam, India (hereinafter called the Company)'s **IFB No. CDI7201P16.**

KNOW ALL MEN BY these presents that we (Name of Bank) _____ of (Name of Country) _____ having our registered office at _____ (hereinafter called "Bank") are bound unto the Company in the sum of (₹) for which payment well and truly to be made to Company, the Bank binds itself, its successors and assignees by these presents.

SEALED with the common seal of the said Bank this _____ day of _____ 2015.

THE CONDITIONS of these obligations are:

- (1) If the Bidder withdraws their Bid during the period of Bid validity specified by the Bidder; or
(2) If the Bidder, having been notified of acceptance of their Bid by the Company during the period of Bid validity:
(a) Fails or refuses to execute the form of agreement in accordance with the Instructions to Bidders; or
(b) Fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

We undertake to pay to Company up to the above amount upon receipt of its first written demand (by way of letter/fax/cable), without Company having to substantiate its demand provided that in its demand Company will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including the date (**) and any demand in respect thereof should reach the Bank not later than the above date.

SIGNATURE AND SEAL OF THE GUARANTORS _____

Name of Bank & Address _____

Witness _____ Address _____

(Signature, Name and Address)

Date: _____ Place: _____

* The Bidder should insert the amount of the guarantee in words and figures in INR.

* * Date of expiry of Bank Guarantee should be minimum 210 days from the date of opening of Bid i.e minimum up to **18.01.2016.**

DETAILS OF BIDDER
(WHEREVER APPLICABLE, TO BE FILLED BY THE BIDDER)

a.	<u>Name of the Bidder / Firm:</u>				
b.	<u>Registered postal address with PIN code:</u>				
c.	<u>Telephone No:</u>				
d.	<u>Mobile No:</u>				
e.	<u>E-mail ID:</u>				
f.	<u>Fax No:</u>				
g.	<u>Contact Person:</u>				
h.	<u>Contact person's contact No:</u>				
i.	<u>PAN No:</u>				
j.	<u>Bidder's Bank details:</u>		Name: Address: A/c Type: A/c No.: IFSC/RTGS Code: NEFT Code:		
k.	<u>EMD / Bid Security Details:</u>				
	EMD / Bid Security Deposited vide: (Tick ✓ whichever is applicable)	ONLINE PAYMENT	DEMAND DRAFT (DD)	BANKER'S CHEQUE (BC)	BANK GUARANTEE (BG)
	EMD Instrument No. & Date:				
	Validity of BG: (If EMD submitted vide BG)				
	Name & Address of EMD issuing Bank / Branch (only in case of EMD submitted in the form of DD / BC / BG)				
l.	<u>VAT Regn. No.</u>				
m.	<u>Service Tax Regn. No.</u> (If not available then to be submitted on issuance of LOA)				
n.	PF code no. (Or a declaration by the applicant that provisions of Provident Fund Act is not applicable to them. In case P.F. is required to be deposited later on, the same will be deposited by the bidder)				
o.	Vendor code with OIL (if available)				

Signature: _____

Name in Block letters _____

For M/S. _____

AREA FOR PROTECTIVE PAINTING OF STRUCTURE**1.0 SHEDS - LPG RECOVERY PLANT SHEDS (GREEN + GREY PAINT):**

(A) Inlet Gas Compressor Shed	143.00 M ²
(B) Expander Shed	92.00 M ²
(C) Horton Sphere Pump House Shed	45.00 M ²
(D) Shed for Heaters	21.00 M ²
(E) Shed for 270 KVA Generator	80.00 M ²
(F) Mechanical Workshop	101.00 M ²
(G) Mechanical Godown No. 3	30.00 M ²
(H) Mechanical Godown No. 4	52.00 M ²
(I) Electrical Workshop	59.00 M ²
(J) Electrical Godown	61.00 M ²
(K) Diesel engine FW Pump Shed	51.00 M ²
(L) Mounded Bullet Area Structure of Pump Shed	132.00 M ²
Total =	867.00 M²

2.0 MV SPRAY SYSTEM AT LPG CYLINDER FILLING AREA:

(A) Loading Shed -	
(i) 75M X 5M	375.00 M ²
(ii) 28M X 5M	140.00 M ²
(B) Unloading Shed -	
(i) 50M X 5M	250.00 M ²
(ii) 28M X 5M	140.00 M ²
Total =	905.00 M²

3.0 LPG FILLING PLANT SHEDS:

(A) Vapour Explosion Shed	72.00 M ²
(B) Tanker Evacuation Shed	120.00 M ²
(C) Tanker Filling Shed (4 Nos.)	64.00 M ²
(D) Condensate Filling Point Shed	230.00 M ²
(E) Filling Plant Workshop Shed	35.00 M ²
(F) Filling Plant Cycle Stand Shed (5M x 12.7 M, 12.3 M x 5 M)	125.00 M ²
Total (including 10 % for pipeposts, fittings, channels etc.) =	710.60 M²

4.0 Empty & Filled Cylinder Shed Structures:

(A) Filled Cylinder Shed	
(i) Blue Paint	
(1) 16" X 7 M	9.00 M ²
(2) 6" X 364 M	174.00 M ²
(3) 4" X 168 M	54.00 M ²
(4) 1.5" X 1512 M	181.00 M ²
(5) 1" X 1176 M	94.00 M ²
(6) 0.5" X 46 M	2.00 M ²
(ii) Grey Paint	
(1) 10" X 85 M	68.00 M ²
(2) 1" X 972 M	78.00 M ²
(3) 2" X 2" Angle X 336 M	68.00 M ²
(iii) Red Paint (Box: 0.52 M X 0.52 M X 4)	2.00 M ²
(B) Empty Cylinder Shed	
(i) Blue Paint	
(1) 16" X 12 M	16.00 M ²

(2) 4" X 500 M	160.00 M ²
(3) 1.5" X 1904 M	228.00 M ²
(4) 1" X 48 M	4.00 M ²
(5) ½" X 35 M	2.00 M ²
(ii) Grey Paint	
(1) 10" X 58 M	46.00 M ²
(2) 1" X 904 M	72.00 M ²
(3) 2" X 2" Angle X 224 M	46.00 M ²
(iii) Red Paint (Box: 0.52 M X 0.52 M X 4)	2.00 M ²
Total =	1306.00 M²

5.0 MOUNDED BULLETS:

(A) Grey Paint: 10" X 90 M	75.01 M ²
(B) Grey Paint: 8" X 80 M	51.07 M ²
(C) Red Paint: 8" X 184 M	117.46 M ²
(D) Yellow Paint: 8" X 30 M	19.15 M ²
(E) Grey Paint: 6" X 220 M	105.33 M ²
(F) Red Paint: 6" X 300 M	143.63 M ²
(G) Yellow Paint: 6" X 100 M	47.88 M ²
(H) Grey Paint: 4" X 800 M	255.35 M ²
(I) Red Paint: 4" X 70 M	22.34 M ²
(J) Grey Paint: 3" X 350 M	83.79 M ²
(K) Red Paint: 3" X 200 M	47.88 M ²
(L) Grey Paint: 2" X 30 M	4.79 M ²
(M) Red Paint: 2" X 120 M	19.15 M ²
(N) Green Paint: 2" X 520 M	82.99 M ²
(O) Yellow Paint: 2" X 200 M	31.92 M ²
(P) Blue Paint: 2" X 200 M	31.92 M ²
(Q) Red Paint: 1.5" X 50 M	5.98 M ²
(R) Red Paint: 1.25" X 400 M	39.90 M ²
(S) Green Paint: 1" X 200 M	15.96 M ²
(T) Grey Paint: 1" X 70 M	5.59 M ²
(U) Red Paint: 1" X 780 M	62.24 M ²
(V) Blue Paint: 1" X 900 M	71.82 M ²
(W) Black Paint: 1" X 300 M	23.94 M ²
Total =	1365.09 M²

6.0 GASOLINE AREA STRUCTURES:

(A) Pipes	
(i) 10" X 2 M	1.60 M ²
(ii) 8" X 3 M	1.90 M ²
(iii) 6" X 5 M	2.40 M ²
(iv) 4" X 30 M	9.60 M ²
(v) 3" X 6 M	1.40 M ²
(vi) 2" X 113 M	18.00 M ²
(B) 2" X 2" Angle - 44 M, 3" X 3" Angle - 12 M, 2.5" X 2.5" Angle - 18 M, 4" X 2" Channel - 5 M, 8" X 4" Channel - 8 M, 3" X 2" Channel - 4 M, 4" Pipe - 6 M, 1.5" Pipe - 36 M, 0.75" Round Bar - 10.5 M, 3" Flat Bar - 100 M, MS Plate - 3 M X 15 M	72.00 M ²
Total (including 10% extra) =	117.59 M²

$$\begin{aligned}
 \text{Grand Total} &= 867.00 \text{ M}^2 + 905.00 \text{ M}^2 + 710.60 \text{ M}^2 + 1306.00 \text{ M}^2 + 1365.09 \text{ M}^2 + 117.59 \text{ M}^2 \\
 &= 5271.28 \text{ M}^2 \\
 &\approx 5272 \text{ M}^2
 \end{aligned}$$

AREA FOR PROTECTIVE PAINTINGS OF EQUIPMENT**1.0 HORTON SPHERES:**

Outer Diameter:	15.720 M
Outside Area = $3.1416 \times (15.720)^2$	776.350 M ²
Outside Surface Area for Two Spheres:	1552.70 M ²
Total Outside Surface Area (adding 10% for nozzles, supports etc.) =	1707.97 M²

2.0 CONDENSATE TANKS:

Outer Diameter:	3.170 M
Length Excluding Two Ends:	18.250 M
Outer Surface Area:	189.6418 M ²
Total Outside Surface Area (Adding 10% For Nozzles, Supports Etc.)	208.605 M ²
Total Outside Surface Area for Two Tanks =	417.21 M²

3.0 FILLING PLANT - TANKER FILLING AREA:

(A) MV Spray System:	
(i) Channel Posts -	15.00 M ²
(ii) Angle 1.5", 1" -	7.60 M ²
(iii) Guard Pipe Post 4" -	11.50 M ²
(iv) Flat Bar 2" -	3.00 M ²
(v) Water & Air Pipe, 1", 1.5", 2", 3" -	54.00 M ²
Total For One Filling Point =	91.10 M ²
Total For Four Filling Points ≈	365.00 M ²
(B) Pipe Rack For Tanker Filling Pipes:	
(i) Post 5" X 5" SQ.- 250 M	127.00 M ²
(ii) Angle	
(1) 3" X 3" SQ.- 1280M	390.00 M ²
(2) 2" X 2" - 788 M	160.00 M ²
(iii) Railing Pipe 1.5" X 220 M	22.00 M ²
(iv) Flat Bar 2" X 220 M, 3" X 220 M	88.00 M ²
(v) Channel 4" X 2" - 12 M	5.00 M ²
(vi) Platform 2 M X 220 M	880.00 M ²
(C) Stairs For Pipe Rack:	
(i) 6" X 3" Channel - 32 M	20.00 M ²
(ii) 3" Flat Bar - 32 M	5.00 M ²
(iii) 2" Flat Bar - 32 M	3.30 M ²
(iv) Railing Pipe 1.25" - 32 M	3.20 M ²
(v) Plate 0.5 M X 1 M - 44 Nos.	44.00 M ²
(D) Tanker Pipe Post:	
(i) 3" X 3" Angle - 4.8 M	1.50 M ²
(ii) 2" X 2" Angle - 4 M	0.80 M ²
(E) Tanker Evacuation Unit Post:	
(i) 2" X 2" Angle - 1.8 M	0.40 M ²
(ii) 2" Pipe Post - 3 M	0.50 M ²
(iii) Angle 3" X 3" - 2.4 M	0.80 M ²
Total (including 10 % for valves, pipe fittings, etc.) ≈	2328.70 M²

4.0 HORTON SPHERE AREA:

(A) LPG Pipes-	
(i) 10" X (28 + 31) M	47.00 M ²

(ii) 8" X 27 M	17.20 M ²
(iii) 6" X (208 + 36) M	116.80 M ²
(iv) 4" X (51 + 30) M	25.90 M ²
(v) 3" X (104 + 30) M	32.10 M ²
(vi) 2" X (208 + 66) M	43.70 M ²
(B) Water Lines-	
(i) 6" X 20 M	9.60 M ²
(ii) 3" X 20 M	4.80 M ²
(iii) 2" X 74 M	11.80 M ²
(iv) 1" X 220 M	17.60 M ²
(C) Casing Pipe 2" - 8 M	1.30 M ²
(D) Electrical 2" Pipe Post- 21 M	3.40 M ²
(E) Platform And Stairs-	
(i) Angle 2" X 2" - 422 M	85.80 M ²
(ii) Angle 2.5" X 2.5" - 294 M	74.70 M ²
(iii) Angle 4" X 4" - 340 M	138.20 M ²
(iv) 4" Pipe X 8 M	2.60 M ²
(v) 3" Flat Bar - 230 M	35.00 M ²
(vi) 8" Flat Bar - 60 M	24.40 M ²
(vii) 2" Flat Bar - 105 M	10.70 M ²
(viii) 6" X 3" Channel - 82 M	50.00 M ²
(ix) 2" X 1" Channel - 19 M	3.90 M ²
(x) 4" X 3" Channel - 8 M	4.00 M ²
(xi) 2" Pipe X 27.4 M	4.40 M ²
(xii) MS Plate 0.4 M X 0.8 M - 24 Nos.	7.70 M ²
(xiii) MS Plate 1 M X 2 M - 2 Nos.	4.00 M ²
(xiv) MS Plate 1 M X 15 M - 2 Nos.	30.00 M ²
(xv) MS Plate 0.8 M X 0.3 M - 185 Nos.	44.40 M ²
(F) Stair Plates: 10" X 30" X 35 Nos.	7.00 M ²
(G) 2" Pipe For Inst. Cable: 24 M	4.00 M ²
(H) HY. Line Tray : 0.3 M X 7.5 M	2.50 M ²
(I) Stair Flat Bar: 3" - 40 M, 2" - 20 M	8.00 M ²
(J) Platform Plate: (2 M X 2 M) X 5 Nos., (0.25 M X 0.8 M) – 25 Nos., (1 M X 5 M) - 2 Nos.	70.00 M ²
(K) 1.25" Pipe- 20 M	2.00 M ²
(L) Cable Tray Angle: 2" X 2" - 178 M	37.00 M ²
(M) Foam Tanks: 4" Pipe X 24 M, (1.2 M X 1.2 M) Plate - 12 Nos.	26.00 M ²
(N) Fire Extinguisher Shed (1.7 M X 0.8 M X 6 Nos.)	9.00 M ²
Total (including 10 % for valves, pipe fittings, etc.) =	1118.15 M²

5.0 RECOVERY PLANT AREA:

(A) Pipe Rack Posts:	
(i) Channel	
(1) 6" X 2" - 1023 M	520.00 M ²
(2) 6" X 3" - 135 M	82.00 M ²
(3) 6" X 4" - 60 M	43.00 M ²
(4) 8" X 4" - 66 M	54.00 M ²
(5) 4" X 2" - 184 M	75.00 M ²
(6) 3" X 2" - 2 M	1.00 M ²
(ii) Angles	
(1) 2.5" X 2.5" - 1489 M	378.00 M ²
(2) 2" X 2" - 505 M	103.00 M ²
(iii) Pipe Post (2" X 6 M)	1.00 M ²
(iv) I Beams	

(1) 8" X 6" X 6" - 60 M	79.00 M ²
(2) 8" X 4" X 4" - 16 M	16.00 M ²
(3) 6" X 4" X 4" - 218 M	199.00 M ²
(4) 5" X 3" X 3" - 74 M	53.00 M ²
Total =	1604.00 M²

6.0 DE-C2 AND DE-C4 COLUMNS (BOTTOM SKIRTS):

(A) De-Ethanizer Bottom Part with Aluminium Paint (3.5 M Dia X 3.4 M Height)	37.40 M ²
(B) De-Butanizer Bottom Part with Aluminium Paint (5.2 M Dia X 2.8 M Height)	45.70 M ²
Total =	83.10 M²

7.0 PROCESS PIPING/ VESSELS:

(A) Yellow Lines:	
(i) 12" X 67 M	64.00 M ²
(ii) 10" X 271 M	216.00 M ²
(iii) 6" X 243 M	116.00 M ²
(iv) 4" X 2 M	1.00 M ²
(v) 2" X 56 M	9.00 M ²
(vi) 1.5" X 132 M	16.00 M ²
(vii) 1" X 52 M	4.00 M ²
(B) Blue Lines:	
(i) 12" X 99 M	95.00 M ²
(ii) 10" X 18 M	15.00 M ²
(iii) 8" X 11 M	7.00 M ²
(iv) 6" X 33 M	95.00 M ²
(v) 3" X 77 M	19.00 M ²
(vi) 2" X 12 M	2.00 M ²
(C) Green Lines:	
(i) 12" X 129 M	124.00 M ²
(ii) 10" X 18 M	14.00 M ²
(iii) 8" X 10 M	6.00 M ²
(iv) 6" X 18 M	9.00 M ²
(v) 3" X 28 M	7.00 M ²
(vi) 2" X 12 M	2.00 M ²
(D) Grey Lines:	
(i) 16" X 162 M	207.00 M ²
(ii) 12" X 13 M	12.00 M ²
(iii) 8" X 56 M	36.00 M ²
(iv) 6" X 84 M	40.00 M ²
(v) 4" X 3 M	1.00 M ²
(vi) 3" X 22 M	5.00 M ²
(vii) 2" X 158 M	25.00 M ²
(E) White Lines:	
(i) 3" X 184 M	44.00 M ²
(ii) 1" X 31 M	3.00 M ²
(F) Red Lines (2" X 122 M):	
	7.00 M ²
(G) Orange Lines:	
(i) 6" X 85 M	41.00 M ²
(ii) 4" X 25 M	8.00 M ²
(iii) 3" X 251 M	60.00 M ²
(iv) 2" X 112 M	18.00 M ²
Total (including 10 % for valves, pipe fittings, etc.) =	1460.80 M²

8.0 CONTROL VALVES:25 NOS. - **25.00 M²****9.0 PROCESS EQUIPMENT:**

(A) HE 15.05	21.00 M ²
(B) HE 15.07	32.00 M ²
(C) HE 15.08	26.00 M ²
(D) HE 15.09	12.00 M ²
(E) HE 15.12	7.00 M ²
(F) FC 21.01	25.00 M ²
(G) FC 21.02	11.00 M ²
(H) FC 21.03	11.00 M ²
(I) PV 16.01	25.00 M ²
(J) PV 16.02	21.00 M ²
(K) PV 16.05	10.00 M ²
(L) PV 16.10	19.00 M ²
(M) PV 16.03	39.10 M ²
(N) PV 16.04	39.10 M ²
Total (including 10 % for valves, pipe fittings, etc.) = 328.02 M²	

10.0 PROCESS VESSELS ETC.:

(A) Grey Closed Drain Tanks:	
(i) 3.5 M Dia X 7 M x 3.14	77.00 M ²
(ii) 5.5 M Circumference X 4 M	22.00 M ²
(B) Grey Central Air Receiver (2.0 M Circumference X 2 M)	4.00 M ²
(C) White Air Receiver (5.0 M Circumference X 6 M)	30.00 M ²
(D) Grey Channels:	
(i) 8" X 3" X 20 M	14.00 M ²
(ii) 6" X 3" X 103 M	63.00 M ²
(iii) 4" X 2" X 62 M	30.00 M ²
(iv) 3" X 2" X 73 M	26.00 M ²
(v) 2" X 1" X 6 M	2.00 M ²
(E) Grey Pipes / Posts:	
(i) 4" X 2 M	0.64 M ²
(ii) 3" X 2 M	0.48 M ²
(iii) 2" X 53 M	8.50 M ²
(iv) 1.5" X 12 M	1.40 M ²
(v) 1.25" X 3 M	0.30 M ²
(vi) 1" X 9 M	0.72 M ²
(F) Grey Angles:	
(i) 3" X 3" X 17 M	5.00 M ²
(ii) 3" X 2" X 4 M	1.00 M ²
(iii) 2" X 2" X 145 M	30.00 M ²
(G) Black Platform:	
(i) 1.5" Pipe X 136 M	16.00 M ²
(ii) 3" Flat Bar X 176 M	27.00 M ²
(iii) MS Plate	228.00 M ²
(H) Yellow:	
(i) 2" Flat Bar X 160 M	16.00 M ²
(ii) 2" X 2" ANGLE X 132 M	27.00 M ²
(I) DE-Ethanizer & DE-C4 Platform:	
(i) Black 1.5" Pipe X 84 M	10.00 M ²

(ii) Black Flat Bar 3" X 296 M	45.00 M ²
(iii) Black Flat Bar 2" X 94 M	5.00 M ²
(iv) Black MS Plate	47.00 M ²
(v) Black Round Bar ½" X 93 M	4.00 M ²
(vi) Yellow 2" Angle X 72 M	15.00 M ²
(vii) 2" Flat Bar X 187 M	19.00 M ²
(viii) 3" Flat Bar X 24 M	4.00 M ²
(J) Expander Compressor:	
(i) Expander lube oil tank	7.7126 M ²
(ii) Expander skid	19.50 M ²
(iii) Expander channel, angles, pipe posts & I beams	2.787 M ²
(iv) Accumulators	2.95 M ²
(K) Inlet Compressor Lube Oil Cooler:	11.00 M ²
Total (including 10 % for valves, pipe fittings, etc.) =	905.29 M²

11.0 INERT GAS PLANT:

(A) Grey Tank 2 M Dia X 4 M	25.00 M ²
(B) Grey 3" Pipe X 7 M	2.00 M ²
(C) Grey 2" Pipe X 2 M	0.32 M ²
(D) Grey 1" Pipe X 5 M	0.40 M ²
(E) Grey ¾" Pipe X 16 M	1.00 M ²
(F) Grey ½" Pipe X 4 M	0.20 M ²
(G) Yellow 2" Pipe X 12 M	2.00 M ²
(H) Yellow 1" Pipe X 10 M	1.00 M ²
(I) Grey Panel 2M X 0.5 M	1.00 M ²
(J) Grey Vessels 16" Dia X 2 M X 2 Nos.	5.00 M ²
(K) Green 4" Pipe X 2 M	1.00 M ²
(L) Green 2" Pipe X 2 M	0.50 M ²
Total =	39.42 M²

12.0 LPG R/ PLANT SAFETY SYSTEM:

(A) Single Hydrants	21.00 M ²
(B) Water Monitors	9.00 M ²
(C) Deluge valves (06 Nos.)	6.00 M ²
(D) Water Reservoir	
(i) Black 1.5" Pipe X 26 M	3.00 M ²
(ii) Black Flat Bar 3" X 26 M	4.00 M ²
(iii) Black MS Plate	9.00 M ²
(iv) Yellow 2" Flat Bar X 26 M	3.00 M ²
(v) Yellow 2" Angle X 20 M	4.00 M ²
(vi) Grey Channel 6" X 3" X 26 M	16.00 M ²
(vii) Red 20" Pipe X 8 M	13.00 M ²
(viii) Red 18" Pipe X 10 M	15.00 M ²
(ix) Red 14" Pipe X 10 M	11.00 M ²
(x) Red 12" Pipe X 4 M	4.00 M ²
(xi) Red 6" Pipe X 12 M	6.00 M ²
(xii) Blue 8" Pipe X 10 M	7.00 M ²
Total =	131.00 M²

13.0 ELECTRICAL TOWER:

(A) Electrical tower (small) 3 nos. with an approx. surface area for painting - 57 sq.m. for each tower	171.00 M ²
---	-----------------------

(B) Electrical tower (big) 1 no. with an approx. surface area for painting - 100 sq.m.	100.00 M ²
Total surface area for four towers (including 10% for fittings etc.) =	298.10 M²

14.0 COMMON VENTING LINE:

(A) Common venting line from storage vessels	
(i) Surface area for 36 m 6" line	18.00 M ²
(ii) Surface area for 243 m 8" line	155.00 M ²
(iii) Surface area for 81 m 10" line	65.00 M ²
(iv) Surface area for 273 m 12" line	262.00 M ²
(v) 10 % extra for valves, pipe fittings, etc.	50.00 M ²
(B) Approx. surface area for 246 m of 16" Flare line (from closed drain vessel to flare) (including 10 % for valves, pipe fittings, etc.)	319.00 M ²
(C) Support posts for common venting lines (including 10 % for base, fittings, etc.) – 76 Nos.	56.00 M ²
Total =	925.00 M²

15.0 270 KVA GENERATOR:

(A) Cooling tower (including supports, motor etc)	3.00 M ²
(B) Engine	11.00 M ²
(C) Piping	20.00 M ²
(D) 1" fuel line to the generator	16.00 M ²
Total =	50.00 M²

16.0 HEATERS:

(A) New Heaters	
(i) Regen. Gas heater	44.00 M ²
(ii) Hot oil heater	44.00 M ²
(iii) Heater pipings & fittings	30.00 M ²
(B) Old Heaters	
(i) Regen. Gas heater	70.00 M ²
(ii) Hot oil heater	70.00 M ²
Total =	258.00 M²

17.0 PUMP/ FAN MOTORS:

(A) Grey Paint:	
(i) Debutanizer pump motor (2 Nos.)	3.00 M ²
(ii) Debutanizer reboiler pump motor (2 Nos.)	3.00 M ²
(iii) Expander lube oil pump motor (2 Nos.)	3.00 M ²
(iv) Closed drain pump motor (2 Nos.)	3.00 M ²
(v) Horton sphere pump motor (3 Nos.)	4.50 M ²
(vi) Condensate despatch pump motor (2 Nos.)	3.00 M ²
(vii) Regen. gas fan motor (2 Nos.)	3.00 M ²
(viii) Cooling water pump motor (2 Nos.)	5.00 M ²
(ix) Deep tube well pump & motor (4 Nos.)	12.00 M ²
(x) 270 KVA generator pump + motor	2.00 M ²
(B) Red Paint: Fire water pumps (7 Nos.)	17.50 M ²
Total =	59.00 M²

18.0 COOLING TOWERS:

(A) New Cooling Tower	80.652 M ²
(B) Old Cooling Tower	80.580 M ²
Total =	161.232 M²

19.0 LPG FILLING PLANT SAFETY SYSTEM:

(A) Single Hydrants	7.00 M ²
(B) Water Monitors	8.00 M ²
(C) Deluge Valves	10.00 M ²
Total =	25.00 M²

20.0 FILLING PLANT EQUIPMENT:

(A) Cylinder Washing Unit: 1.5M, 1.3M, 2.5M	18.00 M ²
(B) Cylinder Drying Unit: 1.5M, 1M, 1.5M	9.50 M ²
(C) Total Cylinder Conveyor Track: 260M X 0.30M	78.00 M ²
(D) Work Shop Shed: 23M X 4 M	92.00 M ²
(E) Cylinder Evacuation Vessel: 4 M ² X 2Nos	8.00 M ²
(F) Air Reservoir: 5 M ² X 2Nos	10.00 M ²
(G) Foam Tank: 1.55M, 2.80M, 1.40M	18.70 M ²
(H) Tanker Evacuation Compressor	4.00 M ²
(I) Air Dryer Unit	8.00 M ²
Total =	246.20 M²

$$\begin{aligned}
 \text{Grand Total} &= 1707.97 \text{ M}^2 + 417.21 \text{ M}^2 + 2328.70 \text{ M}^2 + 1118.15 \text{ M}^2 + 1604.00 \text{ M}^2 + 83.10 \text{ M}^2 + 1460.80 \text{ M}^2 + \\
 &\quad 25.00 \text{ M}^2 + 328.02 \text{ M}^2 + 905.29 \text{ M}^2 + 39.42 \text{ M}^2 + 131.00 \text{ M}^2 + 298.10 \text{ M}^2 + 925.00 \text{ M}^2 + \\
 &\quad 50.00 \text{ M}^2 + 258.00 \text{ M}^2 + 59.00 \text{ M}^2 + 161.232 \text{ M}^2 + 25.00 \text{ M}^2 + 246.20 \text{ M}^2 \\
 &= 12171.192 \text{ M}^2 \\
 &\approx 12172 \text{ M}^2
 \end{aligned}$$