



**Refurbishment, Installation & Commissioning of Available LPG Air
Mix/LPG Storage Equipment, Supply & Installation of New Equipment /
Material and Design for Construction Works of LPG Air Mix & LPG
Storage Facility at Chitral Town.**

Instructions To Bidders and General Terms & Conditions

INVITATION FOR BIDS

1. Sui Northern Gas Pipeline Limited (the Company) invites sealed bids from eligible firms or contractors/ engineering firms/companies involved in Installation, Operations & Maintenance of oil & gas facilities.
2. Bidders may obtain further information and acquire the tender documents from the Office of the Company, at

INCHARGE (LNG-LPG)
LNG-LPG Department, 1st Floor, LDA Plaza,
07-Egerton Road, Lahore Pakistan. 54000,
Tell No.042-99204459, 042-99204557,
Fax # 042-99204652

3. A complete set of tender documents may be purchased by an interested bidder on submission of a written application on Bidder's Company/firm letter head to the above office and upon payment of a non-refundable fee of Rs. 2500 (Rupees two Thousand five hundred only).
4. All bids must be accompanied by a bid bond and must be delivered at above mentioned office at or before 1500 hours, on 16.06.2026. Technical Proposals of bids will be opened at 1530 hours on the same day, in the presence of bidder's representatives who choose to attend at the same address.
5. The "Technical Proposals" shall be evaluated by the Company after opening of the bids. The "Financial Proposal" of bids found technically nonresponsive shall be returned unopened to the respective bidders. Thereafter the "Financial Proposals" of the technically accepted bids only, will be opened in the presence of the concerned bidders.

Yours faithfully,
SUI NORTHERN GAS PIPELINE LIMITED

IRFAN BAIG
INCHARGE (LNG-LPG)

ABRIDGMENT

1. Recipient	INCHARGE (LNG-LPG)
2. Venue	LNG-LPG Department, 1st Floor, LDA Plaza, 07-Egerton Road, Lahore Pakistan.
3. Closing Date& Time of Technical & Financial Bids	16-06-2026, 1500 HRS
4. Technical Bids shall be opened	16-06-2026, 1530 HRS
5. Financial Bids opening	Opening date of Financial Bids will be communicated to technically qualified firms/contractors through letters and emails.
6. Bid Money/Bid Bond	2% (excluding GST) of the estimated value as mentioned in the tender documents.
7. Type of Tender	Single Stage Two Envelope.
8. Cost of Tender Document	Rs. 2,500/-

1. INSTRUCTIONS TO BIDDERS

- 1.1. All rates quoted in the quotation, shall be firm, irrevocable and not subject to change or escalation on any account. No modification, alteration or deletion in the bid will be accepted after the bid opening time.
- 1.2. Sealed Bids shall be received at Company's Office, LNG-LPG Department, 1st Floor LDA Plaza, 07-Egerton Road, Lahore Pakistan. 54000, up to specified time & date and will be opened publicly at specified time & date in the presence of Bidders or their authorized representative who chooses to attend.
- 1.3. All original bid documents accompanied with the bid bond shall be submitted by the Bidder in the envelope provided with tender documents. The sealed Bids must be submitted at the address stated above in person or by courier or by any other means but it shall be the Bidder's responsibility to ensure that Bids so submitted are delivered to the above address by the specified Bid opening date and time. The Company shall not be held responsible in any way for late receipt of Bids or their confidentiality. Bids received after the Bid closing time shall not be considered, and will be returned to the Bidder unopened.
- 1.4. The Bid should be signed by a person having the authority for this purpose. In case of a bid submitted by a corporate entity, the same shall bear its seal and be duly signed. All pages of the Tender Documents must be signed by the Bidder.
- 1.5. Bids shall be submitted strictly in accordance with the requirements of the Tender Documents including the Specifications.
- 1.6. In case of doubt about the meaning of any part of these Tender Documents the Bidder shall state his/her interpretation of that part of the documents on the basis of which his/her Bid has been submitted.
- 1.7. Bids shall remain valid for acceptance for a period of 180 days from the date of public opening of Bids.
- 1.8. The company shall not reimburse any expenses incurred in preparation of Bids.
- 1.9. The Bid and all subsequent correspondence shall be in the English language.
- 1.10. Payment for supply/ delivery will be made in Pakistani Rupees only. The rates quoted by the Bidder shall therefore, be in Pakistani Rupees.
- 1.11. Should the Bidder have any queries in regard to this Tender, the same may be forwarded to email of Incharge LPG-LNG: irfan.baig(@sngpl.com.pk.
- 1.12. The Company reserve the right to reject any or all Bids without assigning any reason thereof.

2. GENERAL TERMS AND CONDITIONS

- 2.1. The ruling language of this tender is English.
- 2.2. The contractor shall be required to have staff members including Electrical, Mechanical Technicians with one Engineer In charge to be present on site in fulfillment of his obligations during the course of the project.
- 2.3. The firm should be holder of Pakistan Engineering Council License not less than C-4 general/financial category.
- 2.4. Price shall be quoted in Pakistan Rupees PKR and the language of bid should be English.
- 2.5. In addition to works carried out the goods/material shall be supplied on Ex-plant basis. The bidder shall take into account the price of the same before submitting the bid.
- 2.6. The bid/contractor shall be irrevocable hence cannot be changed or altered whatsoever.
- 2.7. The bidder/contractor shall carry out its due diligence in quoting the price of required services & goods. The price once quoted cannot be changed as the contract/Work order/Purchase order is on fixed cost basis.
- 2.8. In addition to the above, the contractor shall ensure that Engineer or Project Manager shall be on call (available at site within two days) to rectify defects and faults occurring in the system if the same are beyond the capacity of his site staff. This service shall be provided within the charges quoted by the contractor. If it is deemed that services required i.e. maintenance, defect removal is beyond the reasonable endeavor of contractor labor/staff/engineer or project manager, then the engagement of OEM's foreign staff for the discharging of work is the sole responsibility of contractor.
- 2.9. The contractor will undertake the servicing of the machinery as per scope of work & schedule of requirements.
- 2.10. The POL expenses in discharging the work requirement of said contract and all other associated expenses like messing, lodging of staff, transportation of machinery spare parts and travelling of contractor's personnel is the sole responsibility of the contractor.
- 2.11. The contractor shall be responsible for rectifying all defects immediately upon receiving written or verbal complaint from the plant engineer or the person authorize for the purpose.
- 2.12. In case of any of rectified part or machinery become defective within three months, the contractor, at his own cost, will bring it in order including all spare parts.
- 2.13. If the Company observes that the level of maintenance/repair/refurbishment/servicing and workmanship is substandard and performance of contractor is unsatisfactory due to non-availability of competent staff, spare parts, or use of substandard material, the Company reserves the right to have the repair carried out by an outside party at the risk and cost of the contractor or even rescind the contract altogether by giving one month notice depending on the severity of the incident. Such instance would be construed as non-performance and the charges of the same shall be deducted from Performance

Guarantee. In case if indemnified amount is greater than performance guarantee, then the same may be deducted/adjusted by payment of contractor.

- 2.14. If during the course of execution of work, machinery mechanical, electrical or any other part get damaged beyond repair, or the machinery is on downtime, the contractor shall indemnify the SNGPL to the extent of such damage. The same may be adjusted from performance guarantee or ongoing payment, failing which SNGPL reserves the right to rescind the contract and forfeit the performance guarantee along with commencement of black-listing process from SNGPL and other State-Owned Enterprises (SOEs).
- 2.15. The successful contractor shall furnish in addition to work methodology, project execution timeline in the form of Gant Chat on Primavera and MS excel as well, and project execution plan. Moreover, the contractor shall provide daily, weekly and monthly progress report of the execution of the works.
- 2.16. The contractor shall ensure to complete the said works as per Scope of Work & schedule of requirements. If contractor fails to fulfill the complete work as Scope of Work & schedule of requirements or accomplish partial work, then 0.1 % non-completion charges shall be deducted from ongoing payment every day to the maximum of 10 % of contract value.
- 2.17. It is required that contractor shall quote FOR (Ex-plant) price of brand-new goods and ex-plant delivery of all the spares parts and goods shall be the sole responsibility of contractor. In case of late delivery, then 0.1 % non-delivery charges shall be deducted from ongoing payment every day to the maximum of 10 % of contract value.
- 2.18. The contractor should have National Tax Number and Professional Tax Clearance Certificate and GST number.
- 2.19. A Demand Draft, Pay Order, Deposit-at-Call or Deposit Receipt issued from any scheduled bank at Lahore, equal to 2% (excluding GST) of the estimated value as mentioned in the tender documents. in favor of Sui Northern Gas Pipelines Limited, Lahore shall be submitted with tender as earnest money of bid bond. Tenders without Earnest Money will not be entertained. Cheques and cash will not be accepted. The earnest money of unsuccessful tenderers shall be returned.
 - a. After execution of contract agreement or letter of award/work order with the successful bidder.
 - b. If all the tenderers are rejected, after such rejection or.
 - c. Sixty days from the date of opening of tenders.
- 2.20. Payment for supply/ delivery will be in made in Pakistani rupees only the rates quoted by the Bidder shall therefore, be in Pakistani Rupees.
- 2.21. The earnest money of the successful tenderer shall be returned after submission 1 PPC. If the tenderer to whom the contract is awarded refuses or neglects to execute the agreement than the earnest money will be forfeited.

3. REJECTION OF BIDS

- 3.1. Sui Northern Gas Pipelines Limited reserves the right to reject any or all bids which do not meet the intent of the specifications or where there is evidence of lack of competition or where the lowest bid exceeds the cost estimate by an amount which in the opinion of Sui Northern Gas Pipelines Limited is sufficient to justify such a cause.
- 3.2. The Company does not bind itself to accept the lowest priced bid or any particular bid or any part of a bid, and will not be responsible to pay the expenses or losses which may be incurred by any bidder in preparation of his bid
- 3.3. For the purposes of determining the lowest evaluated bid, factors other than price such as guaranteed delivery period, reliability and efficiency of material, availability of service and spare parts and credibility of dealers will be taken into consideration.

4. Late Bid

- 4.1. The company shall not consider any bid that arrives after the dead line for submission of bid. Any bid received by the purchaser after the dead line for submission of bid shall be declared late, rejected and returned unopened to the bidder.

5. Bid Withdrawal

- 5.1. No Bid shall be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder.

6. AMENDMENT OF BID SCHEDULE

- 6.1. At any time prior to the deadline for submission of Bids, the purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Schedule/Bidding Documents by amendment. The amendment will be notified in writing or by Fax, email or courier to all prospective Bidders who have received the Bid Schedule/Bidding Documents and will be binding on them.

7. AWARD OF CONTRACT

- 7.1. It is the intention to award a contract to the bidder whose bid has been determined to be the lowest evaluated bid and who meet the appropriate standard of capability and financial responsibility.

8. CANVASSING

- 8.1. Canvassing by any bidder at any stage of the bids evaluation is strictly prohibited. Any infringement will lead to disqualification.

9. CONFIDENTIALITY

- 9.1. The Contractor/Consortium and the personnel of any of them shall not disclose the terms, conditions or any information related to the project unless approved by Company.

10. JOINT VENTURE

- 10.1. If the Contractor is a joint venture, consortium, or association persons, all of the members of such joint venture, consortium, or association of persons shall be jointly and severally liable to the Purchase for the fulfillment of the provisions of the Contract. The members shall designate one party to act as a lead

member with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

11. TAXES AND DUTIES

- 11.1. The Contractor and the personnel shall pay the taxes, duties, fees, levies and other imposition levied under the existing, amended or enacted laws during life of this contract and the Purchaser shall perform such duties in regard to the deduction of such tax as may be lawfully imposed pursuant to the relevant tax laws and any amendment thereto.
- 11.2. SALES TAX SPECIAL PROCEDURE-(WITHHOLDING) RULES, 2007 SNGPL as a withholding agent, as per Sales Tax Special Procedure (withholding) Rules, 2007, in accordance with clause No.2 (Responsibility of Withholding Agents), shall deduct an amount as per applicable rate of the total Sales Tax shown in the Sales Tax invoice issued by the supplier and make payment of the balance amount, if any. Payment to the suppliers/bidders shall be linked with active tax payer status. If a supplier/contractor is not in the ATL, no payment shall be made until the supplier/contractor appears on ATL of FBR. The supplier should also mention their National Tax Number (NTN) and also enclose a photocopy of their NTN along with their offer.

12. GOVERNING LAW

- 12.1. The Contract shall be governed by and interpreted in accordance with the laws of the Islamic Republic of Pakistan. The Courts in Lahore shall have exclusive jurisdiction with respect of the tendering process, award of Contract and execution of the Contract.

13. SETTLEMENT OF DISPUTE

- 13.1. The Purchaser and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract. If the parties fail to resolve such a dispute or difference by mutual consultation within twenty-eight (28) days from the commencement of such consultation (must be recorded), either party may require that the dispute be referred for resolution to the formal mechanisms.

14. PERFORMANCE SECURITY

- 14.1. The Contractor shall, within fifteen (15) days of the notification of Contract award, provide a Performance Security for the due performance of the Contract in the amounts and currencies specified from schedule commercial bank in (AA) category. The Purchaser shall at its whole discretion invoke the Performance Security and appropriate the amount secured there under, in the event that the Contractor commits any delay or default in Services rendered or commits any breach or the terms and conditions of the Contract. The Performance Security shall be discharged by the Purchaser and returned to the Contractor not later than 280 days following the date of completion of the Contractor's performance obligations under the Contract/tender/work order/purchase order. The successful bidder should furnish performance security equivalent to 5% of quoted amount within 15 days of award of contract thru work order or Purchase order.

15. ESCALATION OF PRICES

- 15.1. The quoted prices will be firm and final and will not be escalated for any reason what so ever.

16. TECHNICAL AND FINANCIAL SCORING

16.1. If the Bidder does not accept the score evaluated by evaluation committee, its Bid shall be rejected, and its bid security shall be forfeited.

16. 2. List of Documents to be submitted with the bid

- I. Technical proposal (sealed in envelop marked as technical proposal) duly supported by all the relevant documents / experience certificates supported by copies of contract Agreement/Pos/Work order successfully completed, End-user certificates, support letter if any.
- II. Bid Security along with original deposit receipt issued against the purchase of bidding documents.
- III. Valid letter of Authorization of Valid Letter of authorization of LPG /SNG equipment installation, commissioning & maintenance from the Principal company.
- IV. Authorization letter issued by the bidder in favor of person participating in the tender opening process and authorized for making further correspondence with the purchaser, attesting three specimen signatures of the authorized person with Computerized National Identity Card (CNIC) No. along with a copy of CNIC. This authorization shall be issued on letter head of the bidder/ JV.
- V. Each page of the bidding document is to be signed and stamped by the bidder or his authorize representative.
- VI. Alternate bids will not be allowed. Alternate technical modules, methodologies, approach, project plan or timelines that deviate from the defined scope will be considered as alternate bid and will be considered as non-responsive.
- VII. Preliminary Evaluation: The technical proposals will be reviewed for deviations, acceptance of terms and conditions, adherence to scope of work, purchase of bid document etc., In case of non-compliance on any of the above, bids will be considered as technically non-responsive.

16.3. EVALUATION:

- VIII. The total points for technical bid evaluation are 100 out of which the technical bid qualification requires 70 points.
- IX. Technical bids will be evaluated as per given criteria in Annex-F. The bidder will be declared technically qualified if score of technical factors is 70 or more.
- X. The contract will be awarded to technically qualified and financially lowest bidder.

16.4. ACCEPTANCE / REJECTION

SNGPL reserves the right to accept or reject any or all of the bids or a part thereof at any stage without any liability.

16.5. SUB-CONTRACT

In case the bidder intends to subcontract any part of the scope of work, the bidder shall remain fully responsible for the performance of the subcontractor. The bidder shall submit the relevant experience records and supporting documentary evidence of the proposed subcontractor demonstrating compliance with the above qualification requirements.

16.6. SERVICE QUALITY

The Purchaser may reject any Service rendered or any part thereof that fail to conform to the requirement of the purchaser.

16.7. FORMULATION OF CARTEL OR COLLUSION

If formulation of Cartel or Collusion is observed in any of the bid/s, action will be taken against the relevant bidder/s which may tend to black listing and any other action /remedies available under law.

17. CHANGE IN LAW AND REGULATION

17.1. Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country where the Site /area of work is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date, then such Delivery Date shall be correspondingly increased or decreased, to the extent that the Contractor has thereby been directly affected in the performance of any of its obligations under the Contract.

18. FORCE MAJEURE

18.1. For the purpose of this Contract, "Force MajeureTM means an event which is beyond the reasonable control of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, act of terrorism or sabotage, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.

Force Majeure shall not include:

Any event which is caused by the negligence or intentional action of a Party or such Party's agents or employees, nor.

Any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.

The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfill its obligations hereunder with a minimum of delay.

A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than seven (7) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible. The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure. The decision of the Purchaser with regard to the occurrence, continuation, period or extent of Force Majeure shall be final and binding on the Contractor.

Not later than thirty (30) days after the Contractor, as the result of an event of Force Majeure, have become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agree on appropriate measures to be taken in the circumstances.

19. SUSPENSION

19.1. The Purchaser may, by written notice of suspension to the Contractor, suspend all payments to the Contractor hereunder if the Contractor fail to perform any of their obligations under this Contract, including the carrying out of the Services as per schedule, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Contractor to remedy such failure within a period not exceeding seven (7) days after receipt by the Contractor of such notice of suspension and shall invoke contract performance guarantee.

20. TERMINATION FOR INSOLVENCY

The Purchaser may at any time terminate the Contract by giving seven (07) days' Notice to the Contractor if the Contractor becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Contractor, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

21. TERMINATION FOR DEFAULT

a) The Purchaser may, without prejudice to any other remedy for breach of Contract, by Notice of default sent to the Contractor terminate the Contract in whole or in part:

(i) Any representation made by the bidder in the proposal is found to be false or misleading.

(ii) If the Contractor commits any breach of the Contract and fails to remedy or rectify the same within the period of two weeks (or such longer period as the Purchaser in its absolute discretion decide) provided in a notice in this behalf from the Purchaser.

(iii) If the Contractor fail to comply with any final decision reached as a result of arbitration proceedings.

(iv) If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the services for a period of not less than sixty (60) days.

(v) If the Contractor has been black listed by any Government agency due to any misconduct or corrupt practice etc.

b) In the event the purchaser terminates the Contract in whole or in part, the purchaser may procure, upon such terms and in such manner as deems appropriate, Goods or Services similar to those undelivered or not performed, and the Contractor shall be liable to the purchaser for any additional costs for such similar Goods or Services. However, the Contractor shall continue performance of the Contract to the extent not terminated.

22. ADHERENCE TO SAFETY PROCEDURES/RULES/REGULATIONS/BYE-LAWS AND RESTRICTION

22.1. Contractor shall comply with the provision of all laws including labor laws, PEC Bye-laws, rules, regulations and notifications issued there under from time to time. All safety and labor laws enforced by statutory agencies and by Purchaser's HSE Department shall be applicable in the performance of this Contract and Vendor's/Contractor Team shall abide by these laws.

22.2. The Contractor shall take all measures necessary or proper to protect the personnel, work and facilities and shall observe all reasonable safety rules and instructions. Contractor's Team shall adhere to all security requirement /regulations of the Purchaser during the execution of the work.

22.3. The Contractor shall report as soon as possible any evidence, which may indicate or is likely “to lead to an abnormal or dangerous situation and shall take all necessary emergency control steps to avoid such abnormal situations. The contractor shall abide and follow the company’s HSE policy in letter and spirit and follow HSE instructions at site.

22.4. The company shall not be responsible for the loss of contractor personnel life, equipment as a result of unsafe practice and unsafe condition. The contractor shall indemnify its labor in case of loss of life, work lost injury, near miss or any other harm to its personnel and equipment. The contractor shall ensure to obtain insurance cover of its employee, laborers and workmen and share the same with the company before mobilization to site. The contractor shall also obtain insurance cover of all materials and spares to be supplied, in pursuance of Schedule of Requirements, for delivery at LPG Air Mix Plant Chitral.

1. Complete HSE (Health Safety and Environment) contractor Manual is available at SNGPL website www.sngpl.com.pk which must be studied for true implementation during execution of work. Implementation of HSE procedures shall be ensured as per prevailing HSE policy of SNGPL during execution of works.

The Contractor shall be liable to pay compensation to his staff / labor in case of any major injury, disability and fatality category wise as under:

a	In case of major injury (Injury leading to temporary disablement)	Payment of 1/2 of the monthly wages till the recovery of temporary disablement or for a maximum period of one year, whichever is less. Payment of 1/3 of the monthly wages till the recovery of chronic ill health / disease or for a maximum period of 5 year, whichever is less
b	In case of disability (permanent)	Rs. 500,000/-
c	Fatality	Rs.500,000/-

13. Failure to compliance against HSE initiative @ operational sites will lead to blacklisting of contractors through following disciplinary action.

e.	1 st violation	Warning-letter
f.	2 nd violation	Deduction of Rs.5,000/-
g.	3 rd violation	Deduction of Rs. 20,000/-
h.	4 th violation	Blacklisting

14. To ensure that contractor obtains 3rd party insurance to cover such incident (Harmful Incidents / Any Accident)

15. To ensure the sufficient security is retained by the company from the contractors to cover such case (Harmful Incidents / Any Accident)

16. Protective gear should be provided to workers by the contractors to avoid such accidents (Harmful Incidents / Any Accident)

17. To take care of the above point in future as well as running contracts.

23.FAIRNESS AND GOOD FAITH

23.1. The Parties undertake to act in good faith with respect to each other’s rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

24.REMOVAL AND/OR REPLACEMENT OF PERSONNEL

24.1. Except as the purchaser may otherwise agree, no changes shall be made in the Personnel. If, for any reason beyond the reasonable control of the Contractors, it becomes necessary to replace any of the Personnel; the Contractor shall forthwith provide as a replacement a person of equivalent or better qualifications. The Contractor shall bear all additional travel and other costs arising.

25.STANDARD OF PERFORMANCE

25.1. The Contractor shall perform the services and carry out their obligations with all due diligence, efficiency and economy, in accordance with generally accepted techniques and best engineering practices used with professional engineering and consulting standards recognized by professional bodies, and shall observe sound management, and technical/engineering practices, and employ appropriate advanced technology as well as safe and effective equipment, machinery, materials and methods. The Contractor shall always act, in respect of any matter relating to this Contract or to the services, as professional service provider to the Company.

26.CONFLICT OF INTEREST

26.1. The Contractor shall not engage, and shall cause their personnel not to engage, either directly or indirectly, in any business or professional activities which would conflict with the activities assigned to them under this Contract. The Purchaser considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited corrupt practice.

26.2. If the Contractor is found to be involved in a conflict-of-interest situation with regard to the present assignment, the Purchaser may choose to terminate this contract.

26.3. In case of single responsive bidder, SNGPL authorized to acquire Price Reasonability Certificate as per following format: -

26.4. "Certified that the price quoted against tender are not more than the prices charged from any other purchase organization and in case of any discrepancy the tenderer hereby undertakes to refund the price charged in excess."

27.Payment Schedule

As per annexure E of Scope of work and schedule of requirements.

ANNEXURE "I"

To be typed on Company's Letter Head,
by the same signatory / signatories, who
have signed the bid (s).

AUTHORITY LETTER

M/s. Sui Northern Gas Pipelines Limited,
Lahore.

We M/s _____ representing M/s. _____ are /have
submitted Quotation Ref. _____ dated against SNGPL's tender Ref.. _____ dated _____
due for opening on ___ at _____ hour We here by authorize Mr./Miss/Mrs. _____

(Name)

_____ to attend the public opening of the bids on our behalf. He /She has (Designations)
been further authorized to correct erased / fluided figure (s) if any, in the bid.

Signature _____

Stamp _____

Bid Bond No. _____ Date: _____

*M/s Sui Northern Gas Pipelines Ltd. P.O.
Box No. 56, 21-Kashmir Road, LAHORE
(PAKISTAN)*

BID BOND

As per request of M/s _____
we hereby issue our letter of Guarantee No. _____ dated _____
in favour of Sui Northern Gas Pipelines Ltd. in the sum of _____

(Amount) on account of Customer as Bid Bond as per requirement of your tender Enquiry.

No. _____ Due on _____ for supply of (Name) _____

This surety is being issued to enable the Accounted to participate in the Tender as per requirement of the Tender.

We, thereof, hereby undertake to make an unconditional payment of _____ to Sui Northern Gas Pipelines Ltd. on your first written call and without recourse to Customer, in case the Customer subsequently either withdraw, or unilaterally modify, vary or alters its Bid after opening of the tenders and before expiry of bid validity period, or fail to accept purchase order placed by Sui Northern Gas Pipelines Ltd. on the customer, within validity Period of the Customer's Bid or fails to provide Performance /Warranty Bond Guarantee within 30 day of the Q telefax of intent to place an order.

This Bid Bond shall remain valid and in full force till 30 days after the expiry of the bid validity or till after 120 days after the Bids opening, whichever is later, after which date no claim will be entertained.

Any claim arising out of this Guarantee must be lodged in writing within the validity period of this Bond certifying that the customer failed to meet the requirements that were covered by this Bid Bond

ANNEXURE "III"

Performance / Warranty bond Guarantee
No. _____
Date: _____
Valid up to 06 months after the last portion
of the goods/services have been delivered &
completed as per contract till
_____ whichever is later.

M/s Sui Northern Gas Pipelines Ltd.
P.O. Box No. 56, 21-Kashmir Road,
LAHORE (PAKISTAN)

PERFORMANCE / WARRANTY BOND GUARANTEE

As per request of M/s _____
Hereinafter referred to as the "CUSTOMER"

We hereby issue our letter of Guarantee No. _____
in favor of Sui Northern Gas Pipelines Ltd account of the customer _____
for a sum not exceeding (Currency) _____

_____ being 5% of the total value of SNGPL purchase order (in words)
No. _____ dated _____ as a Performance / Warranty Bond Guarantee as per requirements and
specifications mentioned in the Purchase order under the following terms and conditions: -

1. This guarantee is available for payment, without recourse to the customer against Sui Northern Gas Pipelines Ltd first written call to do accompany by a written statement certifying that, the customer failed to comply with the terms and conditions of the purchase order.

2. This guarantee bond shall remain valid till 06 months after the last portion of the goods/services has been delivered & completed to the final destination indicated in the contract or till _____ whichever is later.

All claims under this guarantee must be submitted to us not later than the said validity date after which guarantee becomes automatically null and void, and the bank will stand discharged and released from all its liabilities here under.

Name of Bank
Sd

Officer (Seal) Manager

INTEGRITY PACT

_____ (the Seller/Supplier) hereby declares its intention not to obtain or- induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GOP) through any corrupt business practice.

Without limiting the generality of the foregoing, (the Seller/Supplier) represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GOP, except that which has been expressly declared pursuant hereto.

(The Seller/Supplier) certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GOP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

(The Seller/supplier) accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GOP under any law, contract or other instrument, be voidable at the option of GOP.

Notwithstanding any rights and remedies exercised by GOP in this regard, (the Seller/Supplier) agrees to indemnify GOP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation, to GOP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by (the Seller/Supplier) as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever from GOP.

Signature of Bidder

Rs. 100/-
(Non Judicial Stamp Paper)

CERTIFICATE OF FULL DISCLOSURE AND NON-COLLUSION

We _____ a company/firm registered under the laws of Pakistan and having registered office at hereby declare, confirm and as follows:

1. We have neither offered, given, received or solicited anything of value to influence the actions of any and all parties involved in the procurement process nor misrepresented or concealed any facts in order to influence the procurement process or accomplish the award of contract; nor have we been part of any corrupt or collusive practices prior to or after bid submission which might restrict, reduce or prevent free and open competition, and fair and transparent award of contract.
2. We neither had at the time of submitting the bid nor presently have any relationship, association or link with another bidder nor have we been involved in any arrangement or understanding that directly or indirectly restricted, reduced or prevented free and open competition or a fair and transparent award of contract; and we have made all the disclosures that may be necessary in this regard and nothing has been withheld or concealed from SNGPL.
3. At any stage of the procurement process or after award of the contract, SNGPL may, having evidence of any misrepresentation, inaccuracy, inconsistency or non-conformity in the disclosures, data or other information provided by us, withdraw the letter of award or terminate the contract at our sole cost and expense, and without any liability on the part of SNGPL.
4. This certificate shall form integral part of the contract documents and we shall remain bound by it at all material times.

(DEPONENT)

Verification:

Verified on oath that the contents of this Certificate are true to the best of our understanding, knowledge and belief and nothing has been concealed or misstated herein above.

(DEPONENT)

Date this _____ day of _____ 20 _____



Contractor HSE Statement

Section VI. Supplier/Contractor Certification: [review and sign]

I have reviewed and understand the information contained in this document. I also understand that SNGPL's HSE Personnel have the right to inspect our activities and those of our Suppliers/Contractors with regards to our on-site activities. I further understand that activities pertaining to service and/or maintenance contracts may only require submission of this form on an annual basis.

Name

Title

Signature

Date



Subcontractor Information: (List suppliers/contractors not identified) [type or print]

Type	Firm Name
Architectural	
Mechanical	
Electrical	
Heavy Vehicles	
Industrial Services	
Painting	
Roofing	
Architectural/Engineering / Consulting Firm	
Sampling/Testing	
Chemical Supplier	
Other (specify)	
Scrap/Salvage Dealer	
Waste Disposal	
Demolition Disposal	

Note: It is strongly recommended that you have your subcontractors and suppliers involved at this facility should complete a separate HSE briefing package for the facility's review.



Section V. Contractor Method Statement:

Supplier / Contractor is financially responsible for on-site HSE remediation actions resulting from incidents involving their employees and subcontractors. To minimize the risk of environmental accidents, please review and initial the items contained in the HSE Management Basics Table below:

Health, Safety and Environment Management Basics

**Tick
(✓)**

1. Contractor will ensure that the
 - Health of its employees is protected.
 - All activities carried out for the execution of the job are safe.
 - Compliance is met with all relevant laws and regulations.
 - All HSE (Health, Safety and Environment) procedures of the Company are implemented.
 - Safe working environment is provided to its employees.
2. Contractor will take all necessary steps to minimize the hazards associated with the job. Appropriate personal protective equipment should be provided to the employees where hazards exist.
3. All incidents resulting in Dangerous Occurrence, minor or major injury, fire, vehicle accident and environmental incident are to be reported to Company within 24 hours.
4. The contractor is to make his own arrangements for treating injuries to his employees. In the event a contractor employee is injured while working for the Company, it is the contractor's responsibility to notify the Company representative immediately and to report the circumstances of injury.
5. Contractor's mobile equipment such as trucks, crane, welding machines etc. must be maintained in good working condition. Contractor's trucks and other mobile equipment should be operated in such a way that material they are carrying does not fall off the equipment on to the roads. If repairs are required or vehicles become immobilized, arrangements must be made to correct the situation with additional outside help.
6. Prior to the start of work a certificate from a competent authority is to be given to the site in charge by the contractor stating that all mobile heavy equipment is in good working condition. Only licensed and designated qualified people shall operate contractor's equipment.
7. Company equipment must not be handled or tampered with by contractor. The Company representative may grant permission to the contractor on specific conditions to operate Company equipment if emergency conditions so require.
8. When doing work involving excavation, contractors must not damage or break into or otherwise open any underground piping. Extreme care must be exercised in this respect while excavating with power driven equipment. If lines are accidentally damaged, notify the Company representative immediately.
9. All excavation made by contractors must be fenced, barricaded or otherwise protected so as to prevent personnel from slipping or falling into them.
10. Drawing / Excavation Include safety talk notified for facilitating contract employees ever during transportation by Cos TPT.
11. The authorized Company executive will issue a permit appropriate for any work to be done by the contractor at Company's designated sites where work permit procedure is applicable. After receiving permit for work the contractor shall be guided by Company rules and applicable laws in performing his work.
12. Contractors shall provide to all their staff the relevant PPE's as specified by the Company against each job. Contractors staff will do compliance.

13. Contractor's job sites must be kept reasonably clean and free of rubbish and debris which may create tripping or fire hazard. Upon completion, the contractor shall leave the area in a clean and orderly manner, removing all contractor's debris, equipment, and excess material,
14. Contractor shall dispose of all the waste generated from its activity in environment friendly manner as described in Pakistan Environmental Protection Act, 1997.



Section IV Supplier /Contractor Information: [Circle / Check all that apply]

Current Supplier/Contractor to this Facility

New Supplier/Contractor to this Facility

Currently involved in other Facility project(s)

List Project(s): _____

(Complete Information in table below) [Type or print]

Name:

Address:

City & Province:

Phone Number:

Fax Number:

**President/General
Manager/ CEO etc.:**

**Facility Site
Coordinator:**

Email Address:

Phone Number:

Mobile Number:

Fax Number:

Pager:

**24 Hour Emergency
Number:**

Refurbishment, Design, Supply, Installation & Commissioning

Of LPG Air Mix Plant At Chitral Town

Scope of Work & Schedule of Requirements

1. Project Background:

SNGPL is planning to supply LPG Air mix also known as Synthetic Natural Gas (SNG) to the consumers of Chitral Town where natural gas is not available. In order to supply SNG, LPG will be mixed with air in specific ratio in an LPG Air mix plant to produce SNG. The SNG will have combustion properties equivalent to natural gas. SNGPL procured SNG equipment along with LPG storage tanks, firefighting systems etc in 2016. the list of already procured equipment is given in **Annexure - A**. The equipment is stored at SNGPL Manga Stores in unused condition.

2. Project Overview:

Manufacturers/suppliers of LPG – Air Mix Plants are invited to submit their technical and financial bids to produce LPG Air mix (SNG) at the rate of 20 MMBTU / hr at required discharge pressures of 25 psig by utilizing the available equipment with SNGPL, for supply to gas consumers at Chitral Town, through dedicated option (standalone basis) while using distribution pipeline network. Bids shall be submitted on “Single Stage two envelope bidding procedure” basis as per PPRA guidelines mentioned in the covering letter of this tender enquiry.

The bidder shall be responsible for:

- **Inspection, Assessment & Condition evaluation:** The bidder shall inspect and assess the condition of equipment available at Manga Stores and determine its suitability for installation and operation.
- **Refurbishment and Commissioning:** The bidder shall carry out necessary repair, refurbishment & testing of the existing equipment to make it operational.
- **Supply of Additional Equipment:** The bidder shall supply additional equipment, components and accessories where required, other than the already available equipment, to ensure complete installation and operation of the plant.
- **Installation and Integration:** The bidder shall be responsible for installation, integration, testing, and commissioning of both the existing and newly supplied equipment to ensure the plant operates safely, smoothly and efficiently to get the desired output.
- **The LPG Air Mix Plant and LPG storage Facility** will be installed at Chitral Town.

The technical specifications and site conditions of location are attached as **Annexure-B**.

3. Instructions to Bidders:

- a) The bidder shall be responsible to submit valid documentation / invoice of the additional equipment / parts confirming that the equipment / parts have been purchased from the original manufacturer of the equipment.
- b) A prospective Bidder requiring any clarification of the Bidding Document shall contact SNGPL in writing or raise enquiries during the pre-bid meeting if deemed necessary.

- c) SNGPL will respond to any request from bidder for clarification provided that such request is received no later than ten (10) days prior to the deadline for submission of bids.
- d) The Bidder's designated representative is invited to attend a pre-bid meeting, if required. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- e) The bids should remain valid for 180 days from the tender opening date. All "bid bonds" shall be valid till 30 days after the expiry date (or extended expiry date) of quotation/bid submitted by the Bidder. In case of any subsequent extension on the validity of bid, the Bid Bond will also be revalidated accordingly. Bids submitted without Bid Bond or without required validity shall not be accepted, and hence will not be read out at the time of public tender opening.

4. Bid Prices:

The bidder shall quote / submit a price on a "single responsibility" basis such that the total bid price covers all the obligations of suppliers mentioned in or to be reasonably inferred from the bidding document in respect of:

- a) Inclusive of inspection, assessment, condition evaluation, refurbishment, transportation, testing, commissioning, & Installation of already available three (03) sets of SNG equipment (Annexure-A) currently stored at SNGPL Stores, Manga. in order to restore the equipment to fully operational and reliable working condition.
- b) Inclusive of design, supply, transportation / transit insurance, installation, testing & Commissioning of new parts / equipment, where required with integration, testing, and commissioning of both the existing and newly supplied equipment to ensure the plant operates safely, smoothly and efficiently.
- c) All associated expenses, including but not limited to statutory fees, inspection fees, documentation, licenses and expenses related to boarding, lodging, and transportation during the inspection process of the OGRA, Department of Explosives' inspectors, Electrical connections from Local Authority.
- d) Bidders are required to quote the price for the commercial and technical obligations outlined in the tender document for Module-1 (A) & (B) (**Annexure-C**) and Module-2 (**Annexure-D**). The bidder shall provide price breakup of all offered items as described in Module 1 (A) & (B) & Module 2 in its Financial Proposal.
- e) The bidder will quote the item price and applicable taxes separately.

5. Payment structure

The payment structure is attached as (Annexure -E)

6. Evaluation of Bids

a) Technical Evaluation

- The total points for technical bid evaluation are 100 out of which the technical bid qualification requires 70 points
- technical bids will be evaluated as per given criteria in **Annex - F**. The bidder will be declared technically qualified if score of technical factors is 70 or more.
- The contract will be awarded to technically qualified and financially lowest bidder.

b) Financial Evaluation of bid

SNGPL shall compare all the technically responsive bids to determine the lowest financial bid on complete turnkey package on overall basis including available and new (foreign & local) components for the location as a complete package or group.

7. Experience:

The Bidder shall provide the following:

a) Experience in LPG Air Mix / SNG Plants

The bidder shall provide documentary evidence demonstrating that the supplier has successfully designed, supplied, installed and commissioned LPG vaporization and air-mixing systems as well as LPG storage facilities and LPG bottling plants of similar or higher capacity as specified in this tender in last 10 years.

Details of each reference project shall be provided as part of the technical bid, including system or plant capacity (vaporization capacity, storage capacity, or bottling capacity as applicable), delivery pressure where relevant, project location, and valid contact details of the client (name, phone number, and email address).

b) Bidder's Relevant Experience

The bidder shall have a minimum of ten (10) years of experience in the design, engineering, supply, installation, and commissioning of LPG, SNG, gas handling, or similar industrial plants. Documentary evidence of relevant completed projects shall be provided as part of the technical bid.

c) Subcontracting

In case the bidder intends to subcontract any part of the scope of work, the bidder shall remain fully responsible for the performance of the subcontractor. The bidder shall submit the relevant experience records and supporting documentary evidence of the proposed subcontractor demonstrating compliance with the above qualification requirements.

8. Bidder's Scope of Work:

The bidder shall be responsible to carry out / execute all works (Sr. No 1 to 15) as mentioned in Annexure -F, Compliance Sheet from.

8.1 Definitions:

The definitions of Equipment Inspection, Assessment, Refurbishment, Overhauling, installation, testing and commissioning include, but not limited to the following:

Sr. NO	Stage	Description
01	Equipment Inspection & Assessment	De-crating / un-packing / re-packing of the available equipment stored at Manga Stores & its inspection & condition evaluation through skilled experience personnel.
02	Refurbishment & Overhaul	Complete overhauling / servicing, and replacement of defective / non-serviceable parts to restore equipment to fully operational and reliable condition.
03	Installation	Mechanical/Electrical completion of LPG Air Mix Plant and LPG storage facility including instrumentation, utility, and auxiliary systems.
04	Testing	Verification of all equipment functions as per design specifications and operational requirements.
05	Commissioning	Programmed startup of all systems to achieve desired energy flow rates and operational performance for specified duration.
06	Final Acceptance	Confirmation that installation, testing & commissioning meet SNGPL standards, safety, and operational guidelines.

8.3 Testing / Inspection

SNGPL may appoint a third-party inspection (TPI) agency or its own engineers to review & approve all testing results, reports, procedures, inspection, process etc related to the fabrication,

installation & commissioning of LPG Air mix plant and LPG storage facility. The bidder shall submit weekly progress report to SNGPL with relevant documents / test reports etc. The bidder will also designate a Project Manager (certificates and related previous work experience should be submitted to SNGPL) who will do all correspondence and look after project activities.

The bidder shall submit a Quality Inspection Plan (QIP) to SNGPL for review and approval. SNGPL shall have the right to add / remove activities / amend the QIP as per their requirements. The responsibility for inspection rests with the bidder. However, SNGPL/TPI inspector reserves the right to inspect activities at any time during fabrication to ensure that materials and workmanship are in accordance with this specification, and/or the approved drawings.

9. SNGPL's Scope Of Work:

- a) Construction of all civil structures including building electrical works as per design submitted by the bidder.

10. Codes & Standards:

The bidder shall follow the relevant local & international applicable Codes, Standards and regulatory requirements for the design, supply, installation and commissioning of LPG Air mix plant, LPG storage facility & allied facilities.

- ASME, ANSI, NFPA 58 & 59, 70 (Latest Edition), ISO 9001, FM, UL, IEE, CE Mark, NEMA, API, HSE or equivalent European standards.
- OGRA (Oil & Gas Regularity Authority) Pakistan.
- Department of Explosives, Pakistan
- Any other relevant standard /code.

11. Methodology and Delivery Schedule:

The bidder shall submit methodology for refurbishment, installation, testing and commissioning of equipment and civil constructions along with the following:

- a) An organization chart of the personnel / manpower proposed to be deployed at the work shall be submitted with the technical bid. The chart shall clearly show permanent members of the Bidder's staff. All supervisory staff of the Contractor deputed at site must be on Contractor's permanent payroll. SNGPL reserves the right to stop work at site by the Contractor against SNGPL's Quality Control Standards and HSE requirements.
- b) The bidder shall submit detailed milestones-based project schedule along with timeline in technical proposal about design, civil works, refurbishment, transportation, installation, testing, commissioning and start-up of the LPG Air mix plant & Storage Facility.
- c) The time frame from issuance of Purchase Order/award of contract by SNGPL till the commissioning of LPG-Air Mix Plant & LPG Storage Facility by the supplier should not be later

than 40 week. The project completion time of 40 weeks will start after the issuance of PO to the bidder.

- d) The bidder shall be responsible for safe inland transportation and SNGPL will support the bidder in documentation if required for the transportation.

12. Warranty

The bidder shall provide One (01) - year warranty for the refurbished and new equipment starting from successful commissioning of complete LPG Air Mix Plant & LPG Storage Facility by the bidder. Bidder shall arrange repair/replacement of parts, if so required, to maintain uninterrupted operation of the plants at its own cost and risk, during this warranty period.

**List of Already Available Equipment
for LPG – Air Mix Plant Chitral Town**

Equipment	Manufacturer	Type	Model	Capacity / Quantity	Discharge Pressure
LPG Vaporizer	Aether dbs	Vertical bath type with integrated gas-fired heating arrangement	WB-300V	20 MMBTU/hr each / (03 Nos.)	---
LPG Air Mix (SNG) Blender	Aether dbs	---	AFC-4	20 MMBTU/hr / (03 Nos.)	25 psig
Air Compressor Unit	Atlas Copco	Rotary Screws	GA26FF	4.23 m ³ /min @ 8 bar pressure (FAD) / (06 Nos)	8.5 bar (138 psig)
LPG Feed Pump Package Skid	Blackmer, USA	Positive Displacement (Duplex Configuration)	DB-1.25-3/LGL-1.25	80 lit/min (21gpm)	---
High Speed Wobbe Index Meter	Reineke, Gmbh	---	Not provided	---	---
Fire Fighting Equipment	SFFECO	Electric driven firefighting and diesel engine fire hydrant pumps	SFP 250-26 EM	250 GPM	---
LPG Storage	HiTek	---	---	12 metric ton (MT) each (06 Nos)	---
LPG Decanting Pump	Blackmer, USA	LPG Decanting	LGLD3-VB	8 MT/Hr	---

Technical Data Sheet for LPG – Air Mix Plant Chitral Town

1	Tender Enquiry No.	SN-LPG/Chitral/2026
2	Scope of supply	Refurbishment, Design, Supply, installation & Commissioning of LPG air mix Plant and LPG storage facility.
3	System Capacity	<ul style="list-style-type: none"> • 03 x 20 MMBTU/Hour LPG-Air Mix plant • 06 x 12 Tons capacity LPG tanks each
4	SNG Discharge pressure	<ul style="list-style-type: none"> • 25 Psig
5	System to Operate	<ul style="list-style-type: none"> • Maximum 100% capacity for Base load. • Consistent Wobbe Index and Gross Calorific Value as mentioned in bid documents and attached user data. • Satisfactory and smooth function for gas supply to domestic consumer.
6	LPG Liquid Data	<ul style="list-style-type: none"> • Propane 30 – 70 % • Butane 70-30% (variable) with allowable moderate number of unsaturated Hydrocarbons.
7	System Air / Vapor ratios:	<ul style="list-style-type: none"> • System shall be designed for auto adjustment for change in LPG composition and extreme weather conditions.
8	Wobbe Index	<ul style="list-style-type: none"> • 1180 BTU/scf (with allowable tolerance as per OGRA standard)

- 9 Applicable codes and Standard:
- ASME Pressure vessel code – section-viii Division-1, NFPA 20, 58, 59 & 70 (Latest Edition).
 - ISO 9001.
 - Health Safety & Environment (HSE).
 - Oil & Gas Regulatory Authority (OGRA).
 - Department of Explosives
 - PEC Registration & standards.
- 10 Location:
- Chitral Town
- 11 Tentative Location Coordinates:
- Lat:
 - Long:
- 12 Ambient conditions:
- Temperature (range)
- Humidity (Range)
- Elevation
- Supplier to study past weather data for design consideration

PRICE SCHEDULE
TENDER ENQUIRY NO:

Module No. 1 (A)– Refurbishment of Equipment

Item No.	Description	Qty.	Refurbishment Unit Price in PKR	Total Price in PKR	Parts (Where required) * Price in PKR
1	SNG Equipment inclusive of parts (if required) (Vaporizer Package, Blender Modules & LPG Pump Package Duplex)	03 each			
2	Air Compressor inclusive of parts (if required)	06			
3	LPG storage tanks inclusive of parts (if required)	06			
4	LPG Decanting Pumps of (08 MT/HR capacity each) inclusive of parts (if required)	06			
5	Fire Fighting System for LPG Air mix plant and LPG storage inclusive of parts (if required)	Complete			
6	Any other items and accessories				
Total:					

Note: * the bidder shall provide the list of parts to be used for refurbishment of each equipment with unit price and total price. Any part mentioned in the parts of the list but not used during the refurbishment of the equipment, its price will be deducted.

Module No. 1 (B)– New / Additional Equipment / Material

Item No.	Description	Qty.	Unit Price in PKR	Total Price in PKR
1	Supply of electric generator as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	01		
2	Electrical connection including electric transformer, meter etc. as per facility load for plant startup & operation as per detail mentioned in Compliance sheet (Annexure - F) & design drawings of the tender document.	01		
3	Plant Instrumentation & Emergency Shut Down System for LPG Air Mix Plant / TTU & Storage Facility including remote emergency shutdown as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	As per design		
4	Electrical System including Earthing for LPG Air Mix Plant & Storage Facility as per detail mentioned in Compliance sheet (Annexure - F) & design drawings of the tender document.	As per design		
5	LPG storage tanks allied materials as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	06		
6	Supply of Plant Piping System as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	As per design		

7	LPG Tank Truck Loading / Unloading Facility. (TTU) as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	As per design		
8	LPG Hoses with complete accessories for both the Vapor & Liquid Lines as per detail mentioned in Compliance sheet (Annexure - F) & design drawings of the tender document.	02 Set		
9	Breakaway Coupling for both the Vapor & Liquid Lines as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	01 Set		
10	Supply of flare stack of proven design to be used to burn LPG-Air Mix (SNG) to allow for off-line calibration and testing of SNG system and any other waste gas as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	03		
11	The bidder shall arrange to supply LPG at site for testing & commissioning of LPG Air mix & Storage facility for 08 hours period as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.			
12	Any other items and accessories			
Total:				

Price Schedule**Tender Enquiry No:****Module No. 2: Installation/Testing/Commissioning & Other Services**

Item No.	Description	Qty	FOR Price at site
1	SNG Equipment (Vaporizer Package, Blender Modules & LPG Pump Package Duplex) as Per as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	03 each	
2	LPG Compressor as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	06	
3	LPG storage tanks and allied materials as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	06	
4	LPG Decanting Pumps of (08 MT/HR capacity each) as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	06	
5	Fire Fighting System for LPG Air mix plant and LPG storage as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	Complete	
6	Electric generator as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	01	
7	Electrical connection including electric transformer, meter etc. as per facility load for plant startup & operation as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	01	
8	Plant Instrumentation & Emergency Shut Down System for LPG Air Mix Plant / TTU & Storage	As per design	

	Facility as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.		
09	Electrical System including Earthing for LPG Air Mix Plant & Storage Facility as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	As per design	
10	Plant Piping System as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	As per design	
11	LPG Tank Truck Loading / Unloading Facility. (TTU) as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	As per design	
12	LPG Hoses with complete accessories for both the Vapor & Liquid Lines as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	02 Set	
13	Breakaway Coupling for both the Vapor & Liquid Lines as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	01 Set	
14	Flare stack as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	03	
15	LPG Air mix plant and LPG Storage Facility Design as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	LS	
16	Documents / Certificates after Inspection and Testing of each Equipment Installed at the LPG Air Mix Plant & Storage Facility as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	LS	
17	Calibration Test Certificates of each Equipment installed at the LPG Air mix plant & Storage as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.	LS	
18	Plant inspection by 3 rd Party inspection firm approved by OGRA as per detail mentioned in	LS	

	Compliance sheet (Annexure -F) & design drawings of the tender document. Plant CIE approvals and inspection by department of explosive's inspector as per detail mentioned in Compliance sheet (Annexure -F) & design drawings of the tender document.		
19	Transportation & comprehensive insurance coverage of equipment as per detail mentioned in Compliance sheet (Annexure -F).	LS	
20	Any other items and accessories		
			Total

Payment Structure:**Module-1 (A) – Refurbishment of Equipment**

Progress payments shall be released according to following payment structure

Refurbishment & spare parts of equipment	10 % of payment will be released upon successful refurbishment & testing of the equipment
	20 % of payment will be released upon transportation of refurbished equipment at site.
	30 % of payment will be released upon installation & Testing of equipment at site.
	40 % payment will be released upon successful commissioning of plant.

Module-1 (B) – New / Additional Equipment / Materials

Progress payments shall be released according to following payment structure

New / Additional Equipment /Materials	30% of payment will be released upon delivery of the new / additional equipment / materials at site.
	30% of payment will be released upon installation & testing of equipment at site.
	40% payment will be released upon successful commissioning of plant

Module-2 – Installation/testing/commissioning & Other Services

Progress payments shall be released according to following payment structure

Installation/testing/commissioning & Other Services	40% Payable upon successful installation of LPG Air Mix Plant & Storage Facility equipment along with allied services.
	20% after issuance of OGRA & Department of Explosives final completion certificate for operation of LPG Air Mix plant and storage facility in favor of SNGPL
	40% after successful testing & commissioning of LPG Air Mix Plant & Storage Facility equipment along with the allied services.

Bid Evaluation Criteria

<u>Description</u>	<u>Max. Marks</u>	<u>Obtain Marks</u>	<u>Remarks</u>
Valid Letter of authorization of LPG /SNG equipment installation, commissioning & maintenance.	10		
Valid PEC certificate in C4 category = 5	10		
Valid PEC certificate above C4 = 10			
Bidder's experience & Number of LPG Air Mix plants installed in private & public sector in last 10 years. (5 marks for each project)	15		
Bidder experience in operations & maintenance of LPG Air Mix plant in last 10 years. (5 marks for each project) Copy of PO/workorder/Completion certificate of completed project & contract to be submitted.	15		
The worth of services / work handled Worth above Rs.400 million per year in last 05 years (20 marks)	20		
Worth up to Rs. 200 million per year in last 05 years (10 marks)	10		
Financial Soundness Annual turnover above 400 million Rupees. Copy of Audited bank statement to be submitted & work order/PO/contract agreement to be shared (10 marks)	10		
List of equipment for testing, inspection & calibration, construction and maintenance.	5		
Project Implementation methodology & professional workforce.	5		
Total points	<u>100</u>		
Minimum overall qualifying score	<u>70</u>		

*Documentary Evidence of all criteria items mentioned above to be provided. Upon verification, if bidder's presented documents & bid bond/performance bond are not authenticated, and found to be bogus, forged, concocted or adulterated during evaluation or any other stage of project, the bidder main company & its other associated companies if any would be de-barred and blacklisted from SNGPL & necessary proceeding for cancellation of the same from PEC & other State-owned entities (SOEs) will be initiated.

LPG-Air Mix System for Chitral Town
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Item No.	Description	Offered specification to be filled by the bidder		Documents Reference	Remarks
		Compliant	Non-Compliant		
	<u>Mandatory Requirement</u> <u>Specification Compliance Sheet duly filled and stamped by the bidder should be submitted along with the bid</u>				
1.	The bidder shall be responsible for the inspection, assessment, condition evaluation, refurbishment, installation, testing & Commissioning of all three (03) sets of SNG equipment (Annexure -A) currently stored at SNGPL Stores, Manga. Based on the inspection, the bidder shall carry out the complete overhauling / servicing and replacement of defective non-serviceable / repairable parts where required, in order to restore the equipment to fully operational and reliable working condition.				
1.1	The SNG equipment shall be capable of producing Synthetic Natural Gas (SNG) at a capacity of 20 MMBTU/hr per set, with a required discharge pressure of 25 psig, ensuring smooth and reliable supply of gas to consumers through a dedicated standalone system integrated with the distribution pipeline network.				
1.2	Furthermore, the bidder shall be responsible for the complete installation, testing, and commissioning of the LPG-Air Mixing Plant utilizing the aforementioned equipment, along with any additional components required in accordance with the design specifications provided by M/s SNGPL . In the event that any modification, deviation, or variation from the approved design becomes necessary during execution, the bidder shall obtain prior				

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1.3	<p>review and formal approval of the revised design from M/s SNGPL before proceeding with implementation. The bidder shall ensure that the entire system is properly engineered, integrated, and configured to facilitate the safe, reliable, and continuous production and supply of LPG-Air mix, in compliance with all applicable engineering standards, safety regulations, and operational requirements.</p> <p>The LPG-Air Mix Plant along with the LPG Storage Facility shall be installed at Chitral Town. The bidder shall ensure full compliance with the technical specifications, operational requirements, and site conditions as detailed in Annexure-A & B.</p>				
2.	LPG Air Mix System (SNG):				
2.1	The scope of refurbishment (existing equipment), supply (new equipment/parts where required), installation, testing and commissioning of LPG-Air Mix System packages include but shall not be limited to the equipment / components / items mentioned from Sr. No. 3 to 14, which shall be divided in to hazardous and non-hazardous areas in accordance with standard NFPA 58 & NFPA 70 (Latest Edition).				
2.2	The bidder shall visit LPG Air mix plant site and prepare a detailed study to ensure the supply of LPG Air mix to avoid LPG vapors condensation problems and any other operational difficulties. Based on this study, the				

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	<p>bidder shall propose suitable Propane: Butane mixture ratio for the smooth operation of the LPG Air mix plant at Chitral Town. The proposed mixture ratio by the bidder should be between the following ranges of commonly available LPG in Pakistan:</p> <p>Propane 30-70% Butane 70-30% with allowable moderate amount of unsaturated Hydrocarbons.</p>				
2.3	The available LPG Air mix system do auto adjustment to maintain Wobbe Index in case of change in LPG composition and extreme weather conditions.				
2.4	The equipment is in accordance with the applicable codes, standards and required specifications. The skid includes control room to house the controls for the vaporizer and the LPG – Air blending unit. All the components for the LPG Air Mixer unit are mounted on the same skid with the exception of the air compressor unit.				
2.5	The skid mounted assembled packaged equipment is suitable for installation on concrete foundations/supports as per design. The bidder shall design, supply, install, test and commission the plant piping system considering local and international standard and provide all requisite material for integration and instrumentation of each system and supplier				

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	engineers shall be responsible to integrate and test all the systems including electrical hook-ups and mechanical interconnections of liquid LPG line from storage tanks through pump discharge to vaporizer and the air from the compressor to air surge tank etc.				
3.	LPG Vaporizers (03 Nos)				
3.1	The bidder is responsible for refurbishment, installation, testing, commissioning and supply of parts if required. The bidder will provide a list of parts (if required) with price, required to bring the vaporizers in operation. The payment shall be made on actual number of parts installed.				
3.2	LPG Vaporizers are water/glycol bath type heat exchanger with integrated gas fired heating arrangement.				
3.3	The vaporizers are designed and manufactured in accordance with pressure Vessel Code ASME Section – VIII, Division –I and U stamped.				
3.4	LPG vaporizers design comply with section 5.21.6 of NFPA -58 (Latest Edition) and section 9.3 of NFPA 59 (2012 Edition).				
3.5	The Vaporizer units are of explosion proof design.				

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3.6	The vaporizers capacity is based on desired energy flow of SNG from plant (20 MMBTU/HR) considering bidder's specified fuel (LPG) propane and butane ratios.				
3.7	Direct gas fired water bath/glycol type vaporizers equipped with an automatic safety device to shut off the flow of gas to the main burner and pilot in event of flame failure.				
3.8	The vaporizers are equipped at or near the discharge, with a spring-loaded pressure relief valve that provides a relieving capacity in accordance with Section 5.21.9 of NFPA 58 or Section 10.7.1 of NFPA 59.				
3.9	The vaporizers are provided with a suitable automatic means to prevent liquid from passing through the vaporizer to the vapor discharge piping.				
3.10	The heat insulation has been installed on LPG vapor pipe from discharge of LPG vaporizers to inlet of SNG blending.				
3.11	A control system to limit the temperature of water bath has been provided.				
3.12	The vaporizer packages include the following: <ul style="list-style-type: none"> • Burner integrated with vaporizer as recommended for LPG –Air Mix Vaporizer system, with automatic electronic ignition control. • Fitted with control panel, indication alarm, reset system indicator for; 				

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3.13	<ul style="list-style-type: none"> ○ High & Low fuel pressure indication. ○ Low water bath level indication. ○ High & Low water Bath temperature indication. ○ Burner flame failure indication. ○ LPG (fuel) liquid carry over indicator. ○ Fail safe burner, flame Safeguard system. ○ High water bath temperature gauge. ○ Low water limit gauge. ○ High Liquid LPG Level Shut – Down Switch. ○ Safety Solenoid Switch. ○ Vapor out-let Pressure Gauge. <p>Central Control Panel of vaporizers includes the following indicators:</p> <ul style="list-style-type: none"> ○ Power on / off . ○ Burner Limits, Burner Starter, Vaporizer Starter. ○ Complete with Operating and Safety Controls. 				
3.14	<p>Material of constructions for the main parts of vaporizers</p> <ul style="list-style-type: none"> ○ Process (LPG) heat exchanger Tubing: SS steel ○ Combustion Tube: Carbon steel ○ Water bath Enclosure: Carbon Steel ○ Valves: Carbon Steel & Copper / Brass Or Bronze 				

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3.15	Insulation covers the outside surface of the vaporizer, including the bottom of the vaporizer.				
3.16	All leaks testing data sheet with the test process and result has been provided with shipment data.				
3.17	All exposed metal surface of vaporizer shall be mechanically cleaned, prior to painting as per applicable standard to be specified by the manufacturer.				
3.18	The vaporizer was factory calibrated, third party tested & packaged in accordance with mentioned Codes & Standards.				
4.	LPG and Air Mixing Unit (SNG Blender) – 03 Nos.				
4.1	The bidder is responsible for refurbishment, installation, testing, commissioning & supply of parts if required. The bidder will provide a list of parts / equipment with price, required to bring the SNG blenders in operation. The payment shall be made on actual number of parts installed.				
4.2	LPG-Air mixer (blenders) design comply with relevant sections of NFPA-58 and NFPA 59 (Latest Editions).				

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4.3	Each LPG-Air Mixing unit has been designed for plant capacity to meet SNG flow rate of 20 MMBTU/Hr data at required discharge pressure of 25 psig.				
4.4	The LPG Air mixer units are equipped with Auto Flow Control ratio system. In case of any deviation in LPG composition, the LPG Air blender is capable to adjust airflow control valve automatically to maintain desired Wobbe Index of 1180 BTU/scf.				
4.5	The mixing units are of explosion proof design.				
4.6	The mixing units are efficiently mix two parallel streams of LPG vapor and Air.				
4.7	The mixing units have its own PLC based control panel.				
4.8	The blenders consist of; Local junction box with distributed I/O board, Air flow control valve, LPG flow meter, Air flow meter, LPG pressure transmitter, Air pressure transmitter, Temperature transmitter integral to flow meters, Air open/spring return pneumatic safety valves, SNG pneumatic safety/shutoff valve, Pneumatically operated double valve and vent valves for the LPG vapor and compressed air supply to satisfy NFPA 59, Inlet and outlet manual shutoff valves with flanges and touch screen panel with HMI software or equivalent.				

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4.9	The LPG – Air mixers have been designed and manufactured by an ISO 9001 compliant company and adhere to all the requirements of compliance and holding active (valid) certification product approval from the government accredited organization such as Underwriter Laboratories, FM (Factory Mutual). Global inc, URS & SGS authorized to conduct and testing product certification, periodic process audit.				
4.10	Load change capability of LPG-Air mix units is 0 – 100 %. When load is changed, the LPG Air- mixer unit react quickly, precisely and smoothly.				
4.11	The mixing units are capable of automatically controlling on-off supply of SNG in case of low pressure differential between inlet mixing unit pressure and line pressure approaching zero flow.				
4.12	The LPG-Air mixer units have provision for pressure and temperature compensated flow measurement of both air and LPG separately.				
4.13	The LPG-Air Mixer units have digital display interfacing functions.				
4.14	All writing instrumentation, controls electrical components and their installation comply with recognized standards defined in NFPA -58 & NFPA – 70				

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4.15	<p>The mixing units are fully factory packaged unit fitted with HMI Software or equivalent for all required information display of:</p> <ul style="list-style-type: none"> • Instantaneous measure of air flow, temperature and pressure reading. • Instantaneous measure of LPG-Flow, temperature and pressure reading. • Accumulated LPG /Air Flow reading • Accumulated LPG flow reading • Accumulated Air flow reading. • LPG to Air mixing ratio as % of each. • LPG vapor-Air mixture Calorific value (CV) and Wobbe Index • The mixing unit shall be equipped with safety input parameter. • Alarm messaging in case: <ul style="list-style-type: none"> ○ The LPG vapor – Air mixing ratio deviates from the set point ○ Flow signal and control valve faulty 				
4.16	<p>The equipment are fitted with a metal name plate with following information:</p> <ul style="list-style-type: none"> • Manufacturer Name • Equipment serial number • Year of manufacture • Capacity • Power Supply 				

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5.	Air Compressor Unit (06 Nos.)				
5.1	The bidder is responsible for refurbishment, installation, testing, commissioning & supply of parts if required. The bidder will provide a list of parts (if required) with price, required to bring the air compressors in operation. The payment shall be made on actual number of parts installed.				
5.2	The Air compressors are 'screw type' (Atlas Capco) as part of LPG Air mix system to meet the required capacity at required pressure. The compressors conform the suitability with desired capacity LPG-Air Mix system and for required CFM of air. The air compressor package include all vital air compressor accessories in one compact enclosure, including integrated refrigeration dryer and out-doors enclosure suitable to produce required quantity of clean and oil free air to LPG air mixer unit as well as air regulation and filtration facility is also provided as one unit.				
5.3	There are two (02) Nos. compressor modules of similar capacity. One compressor unit will be operating while the other compressor unit will be on standby.				
5.4	The bidder shall ensure the efficient workability and to provide the required air capacity of the available compressors considering the atmospheric condition/environmental data of the proposed LPG Air mix plant installation sites.				

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5.5	The compressor units are integrated with refrigerant dryer, air regulator, air filtration complete with piping arrangement, designed & manufactured by Atlas Capco.				
5.6	The bidder shall arrange for compressor start-up at LPG Air Mix plant installation location at the time of testing and commissioning.				
5.7	The bidder shall evaluate and recommend appropriate and necessary protection arrangement for compressor units for proposed LPG Air mix plant installation location considering environmental conditions and elevation.				
5.8					
5.9	The bidder shall ensure for safe and reliable operation along with the following; <ul style="list-style-type: none"> • Control and monitoring System • System to control and regulate automatically for optimum efficient performance. • System to monitor status, record entries and check key reading at a glance. 				
5.10	The compressors are provided with means to limit the suction pressure to the maximum for which the compressor is designed.				

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5.11	Alarm has been provided to prevent entrance of liquid gas into the compressor.				
5.12	Power supply; supply Electrical Supply 380 volts, 3 phase, 50 Hz. The bidder will check about the power requirement to run compressor.				
6.	LPG Pump Package (Duplex Type) – 03 Sets				
6.1	The bidder is responsible for refurbishment, installation, testing, commissioning & supply of parts if required. The bidder will provide a list of parts (if required) with price, required to bring the pumps in operation. The payment shall be made on actual number of parts installed.				
6.2	Each pump package (Duplex type) comprised of two (2) pumps to deliver LPG liquid to vaporizer unit, manufactured in accordance with NFPA 58 & 70 (Latest Edition). Each pump has been sized for required output data				

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7	<p>given in schedule of requirement to meet the full 100 % capacity of plant. Pump motor with heavy duty explosion proof enclosure, manufactured and tested in accordance with applicable standard, code (NEMA).</p> <p>Decanting Pumps (06 Nos)</p>				
7.1	The bidder is responsible for refurbishment, installation, testing, commissioning & supply of parts if required. The bidder will provide a list of parts (if required) with price, required to bring the pumps operation. The payment shall be made on actual number of parts installed.				
7.2	Decanting pumps x 08 Matric Ton / Hr. capacity for decanting of LPG bowsers.				

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8.	High Speed Wobbe Index Meter (Calorimeter) 03 Nos.				
8.1	The bidder is responsible for refurbishment, installation, testing, commissioning & and supply of parts if required. The bidder will provide a list of parts (if required) with price, required to bring the calorimeters in operation. The payment shall be made on actual number of parts installed.				
8.2	The Wobbe Index meter is fully interconnected communication module for remote diagnostic on LPG Air mixer unit to monitor on-line gas Wobbe index continuously.				
8.3	The Wobbe index meter have display range upto 1500 Btu/Scf. Accuracy: ± 1.0 % of upper range value.				
9.	Emergency Shutdown System				
9.1	The LPG Air mix system is fitted with pneumatic emergency shutdown system in accordance NFPA – 58 (Latest Edition) to protect the system in case of any emergency. The bidder shall carry out a detailed inspection and functional verification of the Emergency Shutdown system to confirm its proper operation, integrity, and readiness for reliable performance during emergency situations. In case of any defect the bidder shall arrange its rectification to make the emergency shutdown system fully functional.				

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10	Gas Detection Monitoring system				
10.1	The bidder shall provide multiple combustible Gas detectors for monitoring of gas leakages. Trouble, Alarm and Shutdown conditions associated to each detector will be displayed on the HMI. The bidder shall indicate gas detection monitoring locations.				
10.2	Gas detection shutdown conditions shall be coordinated with the SNG Plant Emergency Shutdown System, tripping the ESS in the event of a detected potentially hazardous condition.				
11.	Flare stack (03 Nos)				
11.1	The bidder shall supply, install, test & commission flare stack of proven design to be used to burn LPG-Air Mix (SNG) to allow for off-line calibration and testing of SNG system and any other waste gas. The flare stack will include but not limited to <ul style="list-style-type: none"> • Flare stack complete with base, flare ignition header. • Electronic ignition system with pilot burner and control. • Gas regulation system. • Adjustable air supply mechanism. • Local NEMA 4 control panel. • All electrical components and installation in accordance with standard NFPA 58 and NFPA 70 (Latest Edition). 				

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12	Design of LPG Storage Facility				
12.1	The bidder shall provide design for the entire LPG Air Mix and storage facility including SNG equipment, LPG storage tanks, complete plant piping, civil structures, tank foundations, boundary walls, offices, roads / driveways, sheds, security posts, electrical & mechanical works etc. Any tests required for the preparation of above mentioned design documents shall be bidder's responsibility. The bidder shall submit BOQs, Specifications, construction drawings and design calculations of complete LPG Air Mix & storage facility to SNGPL within 30 days after the award of contract for approval from SNGPL's appointed consultant. SNGPL shall give approval or comments to bidder within 15 working days after submission of design drawings. The time period required for approval by the bidder from SNGPL shall not have any effect on time frame of project i.e. 40 weeks.				
12.2	<p>Scope of Work</p> <p>The bidder's scope of work for the design of LPG Air Mix & storage facility includes the following:</p> <p>Process : It includes the following</p> <ul style="list-style-type: none"> • Development of Process and Instrumentation Diagram for LPG Loading, Unloading, Storage and Bottle Filling system • Hydraulic Analysis i.e., Line sizing etc. 				

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12.3	<ul style="list-style-type: none"> • Sizing of PSVs, Internal/Excess Flow valves, etc. <p>Mechanical : It includes the following</p> <ul style="list-style-type: none"> • Development of Plot Plan / civil structures layout / equipment layout as per OGRA, Explosives & Civil Aviation requirements & rules. • Development of layout for submission to Department of Explosives approval • Development of Piping Layout with sectional details of SNG equipmen, unloading, storage tanks, pump and loading areas. • Design and construction drawing of Pipe Supports • Design for LPG vessels foundations. • Design and fabrication drawing of operating platform at vessels. • Preparation of specifications, data sheet, detailed design, documents. Development of all relevant drawings, which includes, Shop Fabrication Drawings, GA Drawings, Manhole and Nozzles detailed drawings, and any other relevant drawing necessary for the Job. Preparation & submission of BOQ. 				
12.4	<p>Civil : It includes the following</p> <p>Design and construction drawings of</p>				

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	<ul style="list-style-type: none"> • Soil test and topographic surveys • Plant internal road and plant access road • Storm water drain system • MCC / Generator building • Buildings (Cylinder filling shed, Offices, workshop, Fire shed, security room etc) • Plant boundary wall and Main gate • Accommodation complex and internal roads <p>Electrical : It includes the following</p> <ul style="list-style-type: none"> • Development of Single Line Diagram • Total load / Emergency load calculations • Power Cable sizing and Cable routing • Generator Sizing • ESD system • Typical Installation details of Electrical equipment • Development of Hazardous Area Classification & its drawing • Earthing details with layout • Power generation scheme • Electrical and instrumentation equipment list & data sheets / specifications <p>Instrumentation : It includes the following</p>				

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13	<ul style="list-style-type: none"> • Instrument sizing and selection • Control Cable sizing and Cable routing • Typical Installation details of instruments <p>Fire Fighting : It includes the following</p> <ul style="list-style-type: none"> • Development of P&ID • Firewater Calculations • Firewater network sizing • Design & sizing of fire water pumps • Development of Fire water layout with Hydrants/Monitors installation details • Firewater storage tank design and construction drawings • Dedicated Cooling system on vessel and bowser including underground tank, pump and piping. <p>LPG Storage Vessels (06 Nos.)</p>				
13.1	<p>The bidder shall be responsible for refurbishment, installation and supply of parts if required. The bidder will provide a list of parts (if required) with price, required to bring the storage tanks operation. The payment shall be made on actual number of parts installed.</p> <p>The scope of refurbishment, installation, testing and commissioning of LPG storage tanks as per NFPA 58 & ASME Sec VIII Div-1 design specifications</p>				

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	<p>and construction drawings / layout include but shall not be limited to the following,</p> <ul style="list-style-type: none"> • Visual inspection of LPG storage vessels. • Requalification of LPG storage vessels in accordance with applicable standards and statutory requirements. • Hydrotesting of LPG storage vessels • The bidder shall arrange clean water supply for hydro testing. • UT & DPT if required • Upon successful completion of hydrotesting the 3rd party shall issue fitness certificates for all LPG vessels. • Documentation as required by OGRA. • All above activities will be witnessed by an OGRA approved 3rd party • Installation of LPG storage tanks at site • Supply, fabrication & installation of ladder & platform with railing. • Supply & installation of all necessary instrumentation, pneumatic emergency shut down system, safety equipment, valves (internal & external) & accessories etc as per codes / standards and requirements of OGRA. • Supply & installation of roto gauge with alternate magnetic dial gauge for product quantity measurement • Surface Preparation and painting of storage tanks • Calibration of LPG storage tanks by a 3rd party with provision of 				

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13.2	<p>calibration certificates.</p> <ul style="list-style-type: none"> Commissioning / startup of the LPG storage tanks. <p>The bidder shall be responsible for supply, installation, testing & Commissioning of Plant Piping System for loading / unloading area, storage tanks, LPG pumps, LPG Air mix system and connection up to gas distribution network. The piping works include supply and installation of supports, valves, fittings, gauges, safety devices etc. as per standards, design specifications and construction drawings / layout and connection up to Gas Distribution Network. Plant piping integration including radiography, Hydro Testing, Leak Test third Party Inspection any other proposed work.</p>				
13.3	<p>The bidder shall be responsible for supply, installation testing & Commissioning of LPG Tank Truck Loading / Unloading Facility (TTU) including LPG decanting compressors of and LPG Hoses with complete accessories (02 sets) and breakaway coupling (01 set) for both the vapor & liquid lines, pneumatic emergency shut down system as per standards, design specifications and construction drawings / plant layout.</p> <p>The bidders are required to follow the International codes & standards as mentioned under clause no. 10 of “scope of works and schedule of requirements” document. For LPG hoses, the bidders are required to comply with standards such as EN 1762, ISO 2928, BS 4089 or equivalent. Similarly, for the breakaway coupling the bidders are required to comply</p>				

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13.4	with standards such as EN 10272, EN 10213 or equivalent. Required length of LPG hose pipes is 20 feet. The bidder shall be responsible for refurbishment, installation, testing and commissioning of complete Fire Fighting System for LPG Air mix plant and LPG storage including fire fighting pumps (<i>“UL listed” firefighting pumps</i>), fire hydrants, fire hose cabinets, fire fighting hoses, fire fighting nozzles, fire water monitors, Fire extinguishers, hooters, Smoke Detection System with alarm, Fire alarms HSE signs etc. as per design specifications and construction drawings / plant layout. SNGPL will construct fire water tank and civil foundations as per the design drawings provided by the bidder.				
13.5	The bidder shall visit the SNGPL Manga Stores to access the equipment condition and quote the parts / extra equipment required for fire fighting systems with provision of list of parts (if required) with price, required to bring the fire fighting system in operation. The payment shall be made on actual number of parts installed.				
13.6	The bidder shall provide complete electrical System including Earthing for LPG Air mix plant & Storage tanks as per design specifications and construction drawings / plant layout.				

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13.7	The bidder shall provide documents / Certificates after inspection and testing of each equipment installed at the LPG Air mix plant & storage facility.				
13.8	The bidder shall arrange calibration by a certified 3 rd party and provide Calibration Certificate of each equipment installed at the LPG Air mix plant & Storage.				
14.	The bidder shall be responsible for transportation of all available equipment at SNGPL Stores Manga and new equipment from their store etc. and manpower related to LPG Air mix plant & Storage Facility to site at Chitral Town at its own cost and by using its own resources. All types of packing (if required), loading / unloading at SNGPL Stores Manga and site required for safe and sound transportation of equipment will be the responsibility of the bidder. The boarding, lodging facility of bidder's manpower will be arranged by the bidder at its own cost. In case of any damage / loss of equipment during loading / unloading and transportation will be the responsibility of the bidder to repair / replace the equipment / parts at its own cost. The bidder will be responsible for comprehensive insurance coverage for the movement of the equipment from Manga Store, Lahore to the project site.				

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Item No.	Description	Offered specification to be filled by the bidder		Documents Reference	Remarks
		Compliant	Non-Compliant		
14.1	The bidder shall submit list of LPG air mix plants for similar base load capacity/type plants & Storage Facility designed & installed which are operating successfully. The list shall include the client name, contact person's name phone number, fax number, E mail address, location address, plant capacity & pressure.				
14.2	In case of sub-contracting any part of the project to a sub-contractor, the bidder shall be responsible to obtain & submit the above required experience information with evidence / documents.				
14.3	The Bidder shall provide separate price list of recommended two years operational and maintenance spare parts with make, model and part number as per parts catalogue and shall be responsible for the availability of spare for all equipment supplied for a period of 5 years.				
14.4	The bidder shall submit detailed specification, data sheet and list of the equipment and material (scope of supply) for offered new equipments along with design calculation supporting / verifying the capacity of offered equipment along with proposed P&ID.				
14.5	The bidder shall submit drawings, detailed description of material, testing and commissioning procedures of LPG Air mix plant & Storage Facility,				

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14.6	operating & maintenance manuals, instrumentations drawings (P&ID) and automatic control logic of the plant. The documents / drawing related to LPG –Air mix plant and Storage Facility shall be reviewed by SNGPL. The said review however shall in no way relieve the supplier from any responsibilities and liabilities in connections with the air mix system & LPG Storage Facility equipment ordered and the specified delivery date.				
14.7	The bidder shall be responsible to submit valid documentation of the additional equipment / parts confirming that the equipment / parts have been purchased from the original manufacturer				
14.8	After the placement of order, the supplier shall provide three sets of Operations & Maintenance manual of LPG Air mix system.				
14.9	The bidder shall arrange for a third-party inspection of the entire LPG–Air Mix Plant and LPG storage facility through an inspection agency nominated by the Oil and Gas Regulatory Authority (OGRA), Pakistan. The bidder shall ensure that the plant is in accordance with applicable regulatory				

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14.10	requirements and shall obtain the necessary approval and licensing for Operation of the LPG–Air Mix Plant and LPG storage facility from OGRA. The preparation, compilation, and submission of all required documents, certificates, technical reports, and drawings in accordance with OGRA requirements shall be the responsibility of the bidder.				
14.11	All associated costs, including but not limited to OGRA statutory fees, third-party inspection charges, and expenses related to the boarding, lodging, and transportation of the third-party inspectors during the inspection process, shall be borne by the bidder.				
14.12	The bidder shall be responsible for preparing and submitting all necessary drawings and documentation required for obtaining approval from the Department of Explosives for the construction of the LPG-Air Mix Plant and associated LPG storage facilities. All drawings and documents shall be prepared in accordance with the applicable regulations and requirements of the Department of Explosives.				
14.13	Upon completion of the construction works, the bidder shall submit the completion certificate to the Department of Explosives and arrange for the inspection of the LPG-Air Mix Plant and LPG storage facilities. The bidder				

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14.14	shall coordinate with the concerned authorities to obtain the necessary approvals and the issuance of the Explosives License for operation of the LPG-Air Mix Plant and LPG storage facilities from the Chief Inspector of Explosives, Pakistan.				
14.15	Preparation, compilation, and submission of all required documents, certificates, drawings, and technical details as per the requirements of the Department of Explosives shall be the sole responsibility of the bidder.				
14.16	All associated expenses, including but not limited to statutory fees, inspection fees, and expenses related to boarding, lodging, and transportation of the Department of Explosives' inspectors during the inspection process, shall be borne by the bidder.				
14.17	The bidder shall arrange to supply LPG at site for testing & commissioning of LPG Air mix & Storage facility for 08 hours period.				
14.18	A performance test of the complete LPG Air mix plant shall be carried out by the bidder to demonstrate that everything (including process facilities and utilities) meets the tender requirement. The bidder shall submit a performance test procedure document after incorporating Company's comment for approval to the Company. The approved document shall be submitted 10 days prior to starting of the commissioning activities.				

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14.19	The test shall be arranged such that the flow rate of the different equipment's is ramped up in suitable steps until the Maximum Design Capacity of 20 MMBTU/hr per set is reached. A 08 hour test period at different intervals will commence once the process is in a stable operating mode at the Maximum Design Capacity. Any reduction/change to the throughput (outside a band of $\pm 5\%$) during the 08 hours will negate the test. Any requirement of LPG for commissioning over and above 08 hours, due to failure of commissioning on bidder's part, will be arranged by the bidder.				
15	The bidder shall be responsible for hiring of labor & its transportation, boarding, lodging, welding & radiography, Hydro testing, Leak test, Cabling, Earthling and hookup for plant and compressor power supply etc for the commissioning of LPG Air Mix plant.				
15.1	The bidder shall be responsible for providing documents / Certificates after inspection and testing of each equipment installed at the LPG Air mix plant & Storage.				
15.2	The bidder shall design, supply, install, test and commission suitable diesel operated standby electricity generator (USA or European brand) for SNG				

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15.3	<p>plant, allied facilities including offices and accommodation to take care of grid electricity outages.</p> <p>The bidder shall be responsible for arrangement of electrical connection including electric meter, cable & transformer etc as per load for plant start-up & operation. The bidder shall calculate required plant load and arrange electricity connection and transformer for SNG plant and allied facilities and office block and other facilities. All type of expenses like demand notices and other associated expenses / fee / transportation shall be borne by the bidder.</p>				