# Standard Bidding Document

## Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package
## (Goods)

National

Single Stage-Two Envelope

*November 18, 2026*

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# REQUEST FOR BIDS

## PROCUREMENT OF GOODS

1. The **SSGC-LPG Ltd. (SSGC-LPG Limited)** has reserved Funds for the procurement planned for FY **2026-27**. The **SSGC-LPG Ltd. (SSGC-LPG Limited)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package**" with the reference of **"P173199"**

2. The **SSGC-LPG Ltd. (SSGC-LPG Limited)** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amount described in Bid Security Section in Bidding Document in the form of **Pay Order, Bank Guarantee** or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/173199** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before **Monday, December 14, 2026 03:00 PM**. E-bids will be opened using **EPADS v2.0** on the same day at **Monday, December 14, 2026 03:30 PM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet

registered on the new version of **EPADS v2.0,** may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc**

In terms of Rule 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at ( **www.ppra.gov.pk**).

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# Instructions to Bidders

# A. Introduction

## 1.Scope of Bids

1.1 The Procuring Agency (PA), as indicated in the **Bids Data Sheet (BDS)** invites Bids **through EPADS v2.0** for the provision of Goods as specified in the BDS and **in Section V – Evaluation Criteria, Specifications & Schedule of Requirements**. The name, identification, and number of items/deliverables are provided in the **BDS**. The successful Bidders will be expected to provide the goods within the specified period and timeline(s) as stated in the **BDS**.

## 2. Source of Funds

2.1 Source of funds is referred in Clause-2 I of Invitation for Bids.

## 3. Eligible Bidders

3.1 A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country**,** or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of the contract.

Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.

Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any

instructions issued by the Authority.

*(The limit on the number of members of JV or Consortium or Association may be prescribed in BDS, in accordance with the guidelines issued by the PPRA)*.

3.2 The invitation for Bids is open to all prospective suppliers, manufacturers, or authorized agents / dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidders keeping in view the requirement of that business.

3.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.

2. have controlling shareholders in common; or

3. receive or have received any direct or indirect subsidy from any of them; or

4. have the same legal representative for purposes of this Bid; or

5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

6. Submit more than one Bid in this Bidding process.

3.4 A Bidder may be ineligible if –

1. he is declared bankrupt or, in the case of company or firm, insolvent;

2. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;

4. the Bidder is blacklisted locally or by international organizations and hence debarred due to involvement in corrupt and fraudulent practices, or submission of false or misleading information or performance failure or involved in disrupting procurement process or due to breach of bid Securing Declaration.

3.5 As and when required, bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.6 Bidders shall submit Bids relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten (10) percent of the Bid price is envisaged.

## 4. Eligible Goods and Related Services

4.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are the countries declared ineligible by the Federal Government.

## 5. One Bid per Bidder

5.1 A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.

5.2 **The Bidder shall not engage a subcontractor for any portion of the contract if the value of such subcontracting exceeds thirty percent (30%) of the total contract amount.**

## 6. Cost of Bidding

6.1 Any cost incurred by the bidder relating to the preparation and submission of its Bid shall be borne by the bidder, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

# B. Bidding Documents

## 7. Contents of  Bidding Document

7.1 The Goods required, Bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents.  In addition to the Invitation for Bids, the Bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 10.1** include:

**Section I -**Invitation to Bids

**Section II** Instructions to Bidders (ITB)

**Section III** Bid Data Sheet (BDS)

**Section IV** Evaluation Criteria, Specifications, Schedule of Requirements

**Section V** Bid Forms

**Section VI** General Conditions of Contract (GCC)

**Section VII** Special Conditions of Contract (SCC)

**Section VIII** Contract Forms

**Section IX** Integrity Pact

**Section X** Declaration of Beneficial Ownership Information.

7.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding documents. Failure to furnish all the information required in the Bidding documents through EPADS v2.0 will be at the Bidder’s risk and may result in the rejection of its Bids.

## 8. Clarification of Bidding documents

8.1 A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency through EPADS v2.0**.**

8.2 The Procuring Agency will within two (02) working days after receiving the request for clarification, respond to any request for clarification through EPADS v2.0 provided that such request is received not later than three (03) days, prior to the deadline for the submission of Bids as prescribed in **ITB 22**

8.3 The Procuring Agency's response will be forwarded to all identified Prospective Bidders through EPADS v2.0, including a description of the inquiry,

but without identifying its source.

8.4 Should the Procuring Agency deem it necessary to amend the Bidding document as a result of a clarification, it shall do so following the procedure under **ITB 9.**

8.5 If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding document.

8.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on EPADS v2.0. Any modification to the Bidding documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 9. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

## 9. Amendment of Bidding documents

9.1 Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or Pre-Bid meeting may modify the Bidding documents by issuing addenda through EPADS v2.0.

9.2 The Procuring Agency shall promptly publish the addendum through EPADS v2.0.

Any addendum issued including the notice of any extension of the deadline shall also be communicated through EPADS v2.0 to all the bidders who have already submitted their bids. Such bidders shall have the right to withdraw their already submitted bid and re-submit the revised bid prior to the original or extended bid submission deadline.

9.3 To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids through EPADS v2.0:

Provided that the Procuring Agency shall extend the deadline for submission of Bids, if such an addendum is issued within last three (03) days of the Bids submission deadline.

# C. Preparation of Bids

## 10. Language of Bid

10.1 The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bids exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the BDS**.** Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless otherwise specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

## 11. Documents and samples Constituting the Bid

**11.1 The Bid prepared by the Bidder shall constitute the** documents required in the **BDS**.

Details of sample(s) where applicable and requested in the BDS.

Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process;

Documentary evidence established in accordance with **ITB 03** that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods;

Documentary evidence established in accordance with ITB 12 that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;

Bid security or Bid Securing Declaration furnished in accordance with **ITB ---.**

## 12. Documents Establishing Eligibility of the Goods and Conformity to Bidding documents

**12.1** To establish the conformity of the bidder to the Bidding document, the Bidder shall furnish as part of its Bids the documentary evidence that Goods

provided conform to the technical specifications and standards.

## 13. Documents Establishing Eligibility and Qualification of the Bidder

**13.1** Pursuant to **ITB 10,** the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the Bidding process and/or its qualification to perform the contract if its Bid is accepted.

## 14. Form of Bid

**14.1 The Bidder shall fill the Form of Bid furnished in the Bidding document.** The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.

**15. Bid Prices**

15.1 The Bid Prices quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the Bidding documents.

15.2 **All items in the Schedule of Requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced and neither explicitly denied, their prices shall be construed to be included in the prices of other items.**

15.3 In the event that any item(s) in the Price Schedule are not quoted, and such omission is determined by the Procuring Agency not to materially affect the responsiveness of the Bid, the Procuring Agency may, for the sole purpose of bid evaluation and comparison, assign a price to the unquoted item(s) in accordance with the following methodology:

(a) The assigned price shall be the average of the prices quoted for the same item(s) by all substantially responsive bidders; or

(b) In cases where no comparable quotations are available, the Procuring Agency shall apply the corresponding item price from its duly approved cost estimate for evaluation purposes.

The prices so assigned shall be utilized exclusively for bid evaluation and comparison, and shall not, under any circumstances, be incorporated into or form part of the Contract Price.

15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 13.1** shall be the total price of the Bid.

15.5 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the Goods it proposes to provide under the contract.

15.6 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as non-responsive and shall be rejected.

## 16. Bids Currencies

16.1 Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS in accordance with Rule 42 (2) of the Public Procurement Rules, 2026.

## 17. Bids Validity Period

17.1 Such extensions may be more than one time but the total period of such extension shall not exceed the original bid validity period.

17.2 Bids shall remain valid for the period specified in the **BDS** after the Bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive**.** The period of Bid validity will be determined from the complementary Bid securing instrument, i.e. the expiry period of Bid Security or Bids Securing Declaration as the case may be.

The procuring agency shall ordinarily be under an obligation to process and evaluate the bid and to issue letter of award within the stipulated bid validity period.

17.3 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids through EPADS v2.0,. The Bid Security provided under **ITB 17** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension.

## 18. Bid Security or Bid Securing Declaration

18.1 The Bidder shall furnish as part of its Bid, a Bid Security in accordance with Rule 36 of the Public Procurement Rules, 2026.

18.2 The original Bid Security shall be enclosed within the sealed envelope and to be submitted physically before closing time for submission of bids. Whereas, scanned copy of bid security shall be uploaded electronically through EPADS v2.0 before closing hours for submission of bids.

18.3 The Bidder who failed to submit the original Bids security before the submission deadline shall be disqualified straightaway.

18.4 The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder’s conduct which would warrant the security’s forfeiture, pursuant to **ITB 18.7.**

**18.5 The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following:**

a) a bank guarantee, a bank draft, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency;

b) a cashier’s or certified cheque; or

c) another security if indicated in the BDS.

The Bid Security shall be valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder.

18.6 The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in **ITB 18.7** are invoked.

18.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the procuring agency pursuant to **ITB 17.** The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security documents, after whichever of the following that occurs earliest:

a. the expiry of the Bid Security;

b. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the Bid documents;

c. the rejection by the Procuring Agency of all Bids;

d. cancellation of procurement proceedings.

e. the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bid document stipulates that no such withdrawal is permitted.

18.8 The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract**,** or furnishing the Performance Guarantee.

18.9 The Bid Security may be forfeited or the Bid Securing Declaration executed:

a. if a Bidder:

b. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 16.2**; or

c. does not accept the correction of errors**;** or

d. in the case of a successful Bidder, if the Bidder fails:

e. to sign the contract; or

f. to furnish Performance Guarantee**.**

## 19. Withdrawal, Substitution, and Modification of Bid

19.1 Before Bid submission deadline, any Bidder may withdraw, substitute, or modify its Bid after it has been submitted through EPADS v2.0.

## 20. Format and Signing of Bid

20.1 The Bidder shall prepare and submit Bids with due diligence after carefully reading all the terms and condition before bid submission deadline through EPADS v2.0.

# D. Submission of Bids

21. Submission of Bids through EPADS v2.0 before bid submission deadline.

21.1 The Technical and Financial Bids, shall be submitted electronically through EPADS, before bid submission deadline. The bid submission option shall be automatically disabled once the deadline is over.

22. Deadline for Submission of Bids

22.1 Bids shall be received by the Procuring Agency through EPADS v2.0 before bid submission deadline.

22.2 The Procuring Agency may, under exceptional circumstances, extend the deadline for the submission of Bids, after recording reasons in writing and in an equal opportunity manner.

In such case, all rights and obligations of the Procuring Agency and the Bidders that were previously governed by the original deadline shall thereafter be subject to the revised deadline.

# E. Opening and Evaluation of Bids

## 23. Opening of Bids

23.1 The respective Bid Evaluation Committee of the Procuring Agency shall open all Bids through the EPADS v2.0, on the date and time specified in the Bid Data Sheet (BDS).

23.2 The respective Bid Evaluation Committee **shall generate minutes through EPADS v2.0 containing brief details of bid opening process.** The record of the Bid opening shall include, as a minimum: the name of the Bidder, the Bid price if applicable, and the presence or absence of a Bid Security or Bid Securing Declaration.

23.3 The procuring agency shall live broadcast the opening of bids on national media or on their website or digital channels, if the volume of procurement exceeds five hundred million rupees in case of goods and services and one thousand million rupees in case of works.

23.4 In case the date of opening of bid has been declared as public holiday or the procuring agency fails to open bid due to any EPADS v2.0 related issues, the submission and opening of bids shall be shifted to the next working day at the same time.

23.5 In case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Bid respective Evaluation Committee.

23.6 No bid will be rejected at the time of bid openning except for bids whose original bid security has not been provided to the procuring agency before bid submission deadline.

## 24. Clarification of Bids

24.1 To assist in the examination, evaluation and comparison of Bids of the Bidders, the respective Bid Evaluation Committee may, ask any Bidder for a clarification of its Bid including breakdown of prices.

24.2 The request for clarification and the response shall be sought through EPADS v2.0 before **three days prior to the deadline for submission of bids.** No change in the prices or substance of the Bids shall be sought, offered, or permitted.

24.3 The alteration or modification in the bids which in any way affect the following parameters will be considered as a change in the substance of a Bid:

1. evaluation & qualification criteria;
2. required scope of work or specifications;
3. all securities requirements;
4. tax requirements;
5. terms and conditions of Bidding documents.
6. change in the ranking of the Bidder

24.4 From the time of bid(s) opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bids it should do so through **EPADS v2.0**.

## 25. Preliminary Examination of Bids

25.1 Prior to the detailed evaluation of Bids, the respective Bid Evaluation Committee will determine whether each Bid:

1. meets the eligibility criteria defined in **ITB 3**;

2. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding documents;

3. is accompanied by the required securities; and

4. is substantially responsive to the requirements of the Bidding documents.

25.2 The respective Bid Evaluation Committee's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

25.3 A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one that: -

1. affects in any substantial way the scope, quality, or performance of the Goods;

2. limits in any substantial way, inconsistent with the Bidding documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or

3. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

25.4 If a Bid is not substantially responsive, it will be rejected by the respective Bid Evaluation Committee and may not subsequently be evaluated for complete technical responsiveness.

## 26. Examination of Terms and Conditions; Technical Evaluation

26.1 The respective Bid Evaluation Committee shall examine the Bids to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.

26.2 The respective Bid Evaluation Committee shall evaluate the technical aspects of the Bids submitted, to confirm that all requirements specified in Schedule of Requirements and Technical Specifications of the Bidding documents have been met without material deviation or reservation.

26.3 If after the examination of the terms and conditions and the technical evaluation, the respective Bid Evaluation Committee determines that the Bid is not substantially responsive in accordance with **ITB,** it shall reject the Bid.

## 27. Correction of Errors

27.1 Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

1. if there is a discrepancy between unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the respective Evaluation Committee there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

27.2 The amount stated in the Bid will be adjusted by the respective Bid Evaluation Committee in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bids Securing Declaration may be executed.

## 28. Conversion to Single Currency

28.1 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency in accordance with Rule 42(2) of Public Procurement Rules,2026.

## 29. Evaluation of Bids

29.1 The Bids, quotations, or proposals shall be evaluated by the respective evaluation committees as per evaluation criteria prescribed in the Bidding Documents in accordance with Rule 11, 12 and 13 of the Public Procurement Rules, 2026.

29.2 While evaluating the bids, the procuring agency shall consider the following:

i. Bids will be evaluated on lump sum bid basis or items wise or Lot wise (contracts), as specified in the BDS; and the Bid Price;

ii. correction of arithmetic errors in accordance with ITB 27;

## 30. Domestic Preference

30.1 The respective Bid Evaluation Committee shall evaluate and compare bids, allow for preference to domestic bidders, while competing with the international bidders in accordance with the policies of the Federal Government.

The percentage of preference, to be accorded shall be clearly mentioned in the bidding documents under the bid evaluation criteria.

## 31. Determination of Successful Bid

31.1 **Selection technique will be adopted for determining the Successful Bid in accordance with the criteria referred in the BDS or prescribed in the separate section titled as Evaluation Criteria.**

31.2 **Least Cost Based Selection (LCBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered Successful Bid.

31.3 **Quality and Cost Based Selection (QCBS)**
In such combination, there shall be some specific weightage of both the technical features and financial aspects of the proposal. The financial marks shall be awarded on the basis of inverse proportion calculations. The successful bid shall be declared, on the basis of combined evaluation.

31.4 **Quality Based Selection (QBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness the bid in compliance with all the mandatory (technical) specifications/requirements and attaining highest marks in the Technical Evaluation considering all other qualitative and/or quantitative parameters (or point rated criteria) for technical proposal(s) such as working methodology, implementation plan, resource allocation, additional functionalities, risk

management approach, knowledge transfer techniques, post implementation methodology etc. shall be treated as highest ranked bid. Later on, the financial proposal of highest ranked bidder shall be opened, however, in case of failure to proceed further with such a bidder, the procuring agency may resort to second highest bidder and so on.

31.5 The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons:

1. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or

2. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical specifications, requires parameters specified in Evaluation Criteria to be evaluated while determining the quality of the goods.

31.6 In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(xxviii) of the Public Procurement Rules, 2026.

## 32. Abnormally Low Financial Bids

32.1 An abnormally low bid is a bid that, in light of the Procuring Agency's cost estimate, market conditions, or other received bids, appears to be unrealistically low and may not be sustainable for successfull contract execution.

32.2 **Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Successful Bids or as a part of the post-qualification process.**

32.3 The Procuring Agency may reject an Abnormally low financial bid in accordance with Rule 43 of the Public Procurement Rules, 2026.

32.4 In order to identify the Abnormally Low Bids (ALB) following approaches can be considered to minimize the scope of subjectivity:

1. Comparing the Bid price with the cost estimate;

2. Comparing the Bid price with the Bid(s) offered by other Bidders submitting substantially responsive Bids; and

3. Comparing the Bids price with prices paid in similar contracts in the recent past either government- or development partner-funded.

32.5 The respective Bid Evaluation Committee will determine to its satisfaction whether the Bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily.

32.6 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding documents shall not be used in the evaluation of the Bidders' qualifications.

32.7 Respective Bid Evaluation Committee may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining an award of contract.

Explanation: The Certificate shall be furnished by the Bidder. The Bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

32.8 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bid, in which event the respective Bid Evaluation Committee will proceed to the next ranked Bidder to make a similar determination of that Bidder's capabilities to perform satisfactorily.

# F. Award of Contract

### 33. Criteria of Award

33.1 The Procuring Agency will award the Contract to the Bidder whose Bids has been determined to be substantially responsive to the Bidding documents and who has been declared as Successful Bidder.

### 34. Negotiations

34.1 In accordance with Rule 52A of Public Procurement Rules, 2026, without changing the cost and scope of work or services, the procuring agency may

negotiate with the successful bidder (with a view to streamline the work or task execution, at the time of contract finalization) on methodology, work plan, staffing and special conditions of the contract.

There shall be no limitation on the successful bidder offering voluntary reduction in bid price without affecting the quality or scope of the procurement.

## 35. Procuring Agency's Right to reject all bids

35.1 The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the issuance of the Letter of Award, without incurring any liability, in accordance with Rule 45 of the Public Procurement Rules, 2026.

## 36. Cancellation of Procurement

36.1 The procuring agency reserves the right to cancel the procurement proceedings in accordance with Rule 46 of the Public Procurement Rules, 2026.

## 37. Procuring Agency’s Right to Vary Quantities at the Time of Award

37.1 The Procuring Agency reserves the right at the time of contract award to increase or decrease the **quantity of** Goods originally specified in these Bidding documents provided this does not exceed **by** 15%, without any change in unit price or other terms and conditions of the Bids and Bidding documents.

## 38. Notification of Award

38.1 Prior to the award of contract, the procuring agency shall announce and publish the result of bid evaluation on EPADS v2.0 in accordance with Rule 48 of the Public Procurement Rules, 2026.

The Bidder whose Bids has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bids/Bid Validity period. The Letter of Award will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the delivery of Goods as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

38.2 The Letter of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Guarantee and signing of the contract.

## 39. Signing of Contract

39.1 Promptly after issuance of Letter of award, Procuring Agency shall send the successful Bidder the draft Contract, incorporating all terms and conditions as agreed by the parties to the contract.

39.2 Immediately after the Redressal of grievance by the GRC (if any), and **after fulfillment of all conditions precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the Contract.

## 40. Corrupt & Fraudulent Practices

40.1 Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid engaging in any corrupt and fraudulent practices.

# F. Grievance Redressal & Complaint Review Mechanism

41. Constitution of Grievance Redressal Committee

41.1 The Grievance Redressal Committee shall address the grievance, if any submitted by any party, including the bidder, in accordance with Rule 65 of the Public Procurement Rules, 2026 read with Redressal of Grievances Regulations, 2021.

In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 65(7) of the Public Procurement Rules, 2026 to be read with Redressal of Grievances Regulations, 2021.

# G. Mechanism of Blacklisting

42. Mechanism of Blacklisting

42.1 The Procuring Agency shall initiate blacklisting proceedings against any bidder, supplier, or contractor in accordance with the Rule 25 of the Public Procurement Rules, 2026.

42.2 The blacklisted/debarred bidder may file the review petition before the Authority in accordance with Rule 25 (6) of the Public Procurement Rules, 2026 to be read with Procedure of filing and disposal of Review Petitions Regulations, 2021.

## 43. Contract Management

43.1 For each procurement, the Procuring Agency shall designate a Contract Manager, who shall be duly responsible for the efficient management and administration of the contract in strict compliance with the provisions set forth under Rules 58, 59, and 60 of the Public Procurement Rules, 2026.

## 44. Inspection of goods and evaluation of services.

44.1 The Inspection Committee or the Firm shall have the right to conduct inspections of the goods in accordance with Rule 61 of the Public Procurement Rules, 2026.

## 45. Socio-economic development.

45.1 In accordance with Rule 63 of the Public Procurement Rules, 2026, preference may be granted to small and medium enterprises and marginalized groups in accordance with the policies notified by the Federal Government.

## 46. Environmental objectives

46.1 As per Rule 64 of the Public Procurement Rules, 2026, the procuring agency may seek to procure goods with a reduced environmental impact throughout their life cycle when compared to goods services with the same primary function that may otherwise be procured.

# Bid Data Sheet

# Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

*BDS Clause Number*
*ITB Number*
*Amendments of, and Supplements to, Clauses in the Instruction to Bidders*

## A. Introduction

**BDS Clause Number 1**
**ITB Number 1.1**

Name of Procuring Agency: **SSGC-LPG Ltd. (SSGC-LPG Limited)**

The subject of procurement is: **Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package**

Period for Provision of Goods:

Extension Period (if applicable):

Expected commencement date: **Friday, February 26, 2027**

**BDS Clause Number 2**
**ITB Number 2.1**

Source of funds [Enter source of funds]

Financial year for the operations of the Procuring Agency: **2026-27**

Name and identification number of the Contract: **P173199**

Identification Number:

**BDS Clause Number 3**
**ITB Clause Number 3.1**

Eligible Bidder [Enter eligibility of bidder]

JV/Consortium or Association Allowed: **No**
Number of JV/Consortium Members: **Nil**
*see section of eligibility criteria.*

# B. Bidding Documents

**BDS Clause Number 4**

**ITB Clause Number 4.1**

Eligible goods and related services [Enter requirements for eligible goods and related services, if any]

**ITB Number 8.1**

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, December 11, 2026
Pre-Bid Meeting: Monday, November 30, 2026 11:00 AM
Venue: SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi.

**ITB Number 8.2**

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, December 11, 2026
Pre-Bid Meeting: Monday, November 30, 2026 11:00 AM
Venue: SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi.

**ITB Number 8.3**

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, December 11, 2026
Pre-Bid Meeting: Monday, November 30, 2026 11:00 AM
Venue: SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi.

**ITB Number 8.5**

Pre-bid meeting will be/will not be held [Tick the appropriate] If yes write down the time, and date of the pre-Bid meeting:
[The meeting should take place not later than one weeks before the deadline for Bid submission.]

# C. Preparation of Bids

**BDS Clause Number 5**
**ITB Number 10.1**

The Language of all correspondences and documents related to the Bids shall be in: **English**

List of documents required along with the bid:

1. DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID The bidder shall submit: 1. Manufacturer and model. 2. Pump datasheet. 3. Certified pump performance curve. 4. NPSH curve. 5. Power consumption curve. 6. Efficiency curve. 7. GA drawing. 8. Pump sectional drawing. 9. Foundation/baseplate drawing. 10. Motor datasheet. 11. Motor performance data. 12. Hazardous-area certificate. 13. Mechanical seal datasheet. 14. Coupling details. 15. Material specifications. 16. Hydrostatic test procedure.

2. DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID 17. FAT procedure. 18. Installation requirements. 19. Recommended spare-parts list. 20. O&M requirements. 21. Previous relevant installation references. 22. Complete technical compliance statement. BIDDER TECHNICAL COMPLIANCE The bidder shall provide a detailed compliance statement against every requirement of this specification. Each item shall be marked:

3. DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID COMPLY / DEVIATION / NOT APPLICABLE Any deviation shall be clearly identified and technically justified. Silence or failure to identify a deviation shall not be considered acceptance of a deviation.

4. DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID RECOMMENDED SPARES The bidder shall submit a separate price schedule for recommended commissioning and two-year operational spare parts, including as applicable: • Mechanical seal • Bearings • O-rings • Gaskets • Coupling element • Wear rings • Seal components • Instrument spares • Motor bearings • Other critical pump components

5. DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID KEY TECHNICAL REQUIREMENTS-MANDATORY The following shall be considered mandatory technical requirements: 1. Pump shall be specifically suitable for LPG service.

2. Horizontal multistage centrifugal pump. 3. Minimum capacity: 60 MT/hr. 4. Required operating range: 60–70 MT/hr. 5. Differential pressure: 8–10 bar(g). 6. Maximum differential pressure: ≥12 bar. 7. NPSHA: 9 ft (2.74 m). 8. NPSHR: ≤5 ft (1.52 m) at 60 MT/hr.

6. 9. Minimum NPSH margin: 4 ft (1.22 m). 10. Pump design pressure: minimum 20 bar(g). 11. Motor: 415 V, 3-phase, 50 Hz. 12. Motor: S1 continuous duty. 13. Motor efficiency: IE3 minimum. 14. Motor insulation: Class F minimum. 15. Motor enclosure: IP66 minimum. 16. Motor shall be certified for the applicable LPG hazardous area. 17. Motor shall be non-overloading throughout the specified operating range. 18. Dry-run/low-suction protection shall be provided.

7. 19. Complete pump performance and NPSH curves shall be submitted. 20. Factory performance and mechanical tests shall be conducted. 21. Site performance test shall demonstrate the specified duty. 22. Complete hazardous-area certificates shall be submitted. 23. Pump shall be suitable for continuous operation at SLL Port Qasim Terminal. 24. All equipment shall be suitable for the existing LPG system and site conditions.

8. IMPORTANT BIDDER CONFIRMATION The bidder shall provide the following explicit statement in the technical offer: "We confirm that the proposed LPG pump-motor set has been selected based on the specified operating conditions of 60–70 MT/hr capacity, 8–10 bar(g) differential pressure and NPSHA of 9 ft (2.74 m). We further confirm that the pump NPSHR at 60 MT/hr. shall not exceed 5 ft (1.52 m) and

9. and that the selected motor is adequately sized and shall not overload anywhere over the specified pump operating range, including maximum absorbed power conditions."

10. FINAL TECHNICAL NOTE The final pump selection shall be based on the actual hydraulic conditions of the SLL Port Qasim Terminal, including suction pressure, discharge pressure, static head, pipe friction losses, LPG density/composition and available NPSH. The bidder shall not finalize the pump solely on the basis of the nominal capacity. The successful bidder shall verify the complete system during the site survey and shall be responsible for supplying a pump-motor set capable of safely and

11. reliably achieving the specified bowser filling duty. -STRAINER / FILTER A suitable LPG-compatible suction strainer shall be provided where required by the pump manufacturer. The strainer shall be sized so that pressure drop is minimized and adequate NPSH is maintained. The bidder shall state: • Mesh size. • Filtration area. • Pressure rating. • Material. • Pressure drop at rated flow. The arrangement shall permit safe cleaning and maintenance

12. VALVES All valves associated with the pump package shall be suitable for LPG service and shall have appropriate pressure and temperature ratings. The following shall be provided as required: • Suction isolation valve. • Discharge isolation valve. • Check valve. • Bypass valve. • Relief valve. • Drain valve. • Vent valve. Valve material and pressure class shall be stated.

13. EARTHING AND BONDING The complete pump skid, motor, piping and associated metallic components shall be properly electrically bonded and connected to the existing plant earthing system. The Contractor shall provide all necessary: • Earth lugs • Bonding jumpers • Earthing conductors • Connection hardware The earthing arrangement shall be tested and documented during commissioning.

14. PAINTING / CORROSION PROTECTION All external carbon-steel surfaces shall be properly prepared and coated with a suitable industrial coating system for the Port Qasim environment. The coating system shall be suitable for: • Marine atmosphere • Humidity • LPG terminal environment • Outdoor installation The bidder shall provide the proposed coating specification.

15. SITE INSTALLATION The Contractor shall be responsible for complete installation of the supplied pump package. Installation shall include: • Removal of existing equipment where specified. • Positioning of new pump. • Foundation preparation/modification, if required. • Pump/motor installation. • Alignment. • Piping connections. • Valve installation. • Electrical connections. • Instrumentation. • Earthing. • Control wiring. • SCADA/control system interface. • Painting/touch-up. • Testing.

16. All installation work shall be carried out by qualified and experienced personnel.

17. PRE-COMMISSIONING The Contractor shall conduct complete pre-commissioning checks, including: • Mechanical inspection. • Piping inspection. • Flange inspection. • Valve operation. • Bolt tightening. • Pump rotation

check. • Motor insulation resistance test. • Cable continuity test. • Earthing test. • Instrument calibration. • Control logic verification. • Emergency shutdown verification. • Interlock verification. • Lubrication check. • Seal inspection.

18. COMMISSIONING AND PERFORMANCE TEST The Contractor shall commission the pump in the presence of SLL representatives. The performance test shall demonstrate that the pump can achieve the specified operating capacity under actual site conditions. The minimum demonstrated capacity shall be: 60 MT/hr LPG. The Contractor shall record: • LPG flow rate. • Suction pressure. • Discharge pressure. • Differential pressure. • Motor current. • Motor voltage. • Pump speed. • Vibration. • Bearing temperature.

19. • Seal condition. • Operating duration. The pump shall operate smoothly without abnormal vibration, noise, overheating or LPG leakage.

20. PERFORMANCE GUARANTEE The bidder shall guarantee: 1. Minimum rated capacity of 60 MT/hr. 2. Suitable NPSH performance. 3. Pump efficiency. 4. Motor power consumption. 5. Mechanical integrity. 6. No unacceptable LPG leakage. 7. Vibration within manufacturer's/API applicable limits. 8. Reliable continuous-duty operation. Failure to achieve the guaranteed performance shall require the bidder to rectify or replace the equipment at no additional cost to SLL.

21. VIBRATION AND NOISE Pump vibration shall be measured during commissioning. The measured vibration shall be within the manufacturer's specified limits and applicable international standards. The bidder shall provide the allowable vibration limits with the technical offer. Abnormal noise, vibration or resonance shall be considered unacceptable.

22. SPARE PARTS The supplier/ bidder shall quote separately for recommended commissioning and two-year operational spare parts. The recommended spare parts shall include, as applicable: • Mechanical seal. • O-rings. • Gaskets. • Bearings. • Wear rings. • Coupling elements. • Pump shaft components. • Relief valve spares. • Motor bearings. • Instrument spares. • Other critical consumables. A complete spare-parts list with part numbers and quantities shall be submitted.

23. SPECIAL TOOLS All special tools required for operation and maintenance of the pump shall be identified and quoted separately. Where manufacturer-

specific special tools are required, these shall be included in the supply unless otherwise agreed by SLL. DOCUMENTATION The Contractor shall provide complete technical documentation, including: Before Supply • Technical datasheet. • Pump performance curve. • NPSH curve. • GA drawing. • Foundation drawing. • Piping connection details.

24. • Motor datasheet. • Hazardous-area certificates. • Material specifications. • Seal datasheet. • Electrical drawings. • Control philosophy. • Cause & Effect Matrix. • Installation requirements.

25. After Supply • As-built drawings. • Operation & Maintenance Manual. • Spare parts list. • Recommended maintenance schedule. • Test certificates. • FAT report. • Hydrostatic test certificate. • Material certificates. • Calibration certificates. • Motor test certificate. • Hazardous-area certificates. • Site commissioning report. • Performance test report. All documents shall be provided in English.

26. TRAINING The Contractor shall provide operational and maintenance training to SLL personnel. Training shall cover: • Pump operation. • Start-up/shutdown procedure. • Emergency shutdown. • Routine inspection. • Mechanical seal monitoring. • Lubrication. • Troubleshooting. • Preventive maintenance. • Spare-parts replacement. • Safety precautions. Training shall be conducted at SLL Port Qasim Terminal after commissioning.

27. SAFETY REQUIREMENTS All work shall be carried out in accordance with SLL safety requirements and applicable statutory regulations. The Contractor/ bidder shall comply with: • Permit-to-work system. • Gas testing requirements. • Hot-work restrictions. • Electrical safety requirements. • Lock-out/tag-out requirements. • PPE requirements. • LPG safety procedures. • Emergency response requirements. No hot work or modification in the LPG system shall be undertaken without written approval from SLL.

28. HAZARDOUS AREA COMPLIANCE All electrical and instrumentation equipment installed within classified hazardous areas shall be certified for the applicable hazardous-area classification. The bidder shall submit valid certificates from recognized certification bodies. Certificates shall clearly identify the applicable: • Zone/Class • Gas group • Temperature class • Equipment protection level/category • Certification standard

29. CODES AND STANDARDS The equipment shall comply with the latest applicable editions of recognized international standards, including, where applicable: • ASME B16.5 – Pipe flanges and flanged fittings. • ASME B31.3 – Process Piping. • NFPA 58 – Liquefied Petroleum Gas Code, where applicable. • Applicable local statutory and regulatory requirements. • SLL engineering and safety standards.

30. SITE SURVEY Before finalizing the pump selection, the successful bidder shall conduct a detailed site survey. The survey shall verify: • Existing pump arrangement. • Pump foundation. • Existing suction piping. • Existing discharge piping. • Pipe sizes. • Flange ratings. • Suction pressure. • Discharge pressure. • Static head. • NPSHA. • Electrical supply. • Hazardous-area classification. • Existing control system. • Available space. • Access for maintenance.

31. • Existing bowser filling arrangement. The Contractor/ bidder shall be responsible for ensuring that the supplied equipment is physically and technically compatible with the existing installation.

32. WARRANTY The complete pump-motor package shall have a minimum warranty of: 12 months from commissioning or 18 months from delivery, whichever occurs earlier. A longer warranty period offered by the bidder shall be considered favorably. • The warranty shall cover defects in: • Pump • Motor • Mechanical seal • Bearings • Coupling • Baseplate • Instruments • Electrical/control equipment supplied under the contract • Workmanship

**BDS Clause Number 6**
**ITB Number 11.1**

Documents required / not required with bid submission [enter list of documents] Samples required / not required with the bid [Enter the names and number of samples]

**Items/Lots and their related documents:**

*See section items and Lots*

**BDS Clause Number 7**
**ITB Number 12.1**

**Items / Lots Specifications:**

*see section of items specifications.*

**BDS Clause Number 8**
**ITB Number 15.6**

The price shall be **Fixed**.

**BDS Clause Number 9**
**ITB Number 16.1**

Currency of the Bids shall be : **PKR**

**BDS Clause Number 10**
**ITB Number 17.1**

The Bids/Bid Validity period shall be: **120 Days**

**BDS Clause Number 11**
**ITB Number 18.1**

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
Instrument of Bid Security shall be in the Name of : **SSGC-LPG Ltd.**
The Bid Security shall be in the form of: **Pay Order, Bank Guarantee**

**ITB Number 18.2**

The address for submission of original bid security is [ Insert the address for bid security submission]

## D. Submission of Bids

**BDS Clause Number 12**
**ITB Number 20.1**

Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following;

**SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).** before bid submission deadline.

Bids that are not submitted on EPADS v2.0 shall be disqualified.

The deadline for Bids submission is: **Monday, December 14, 2026 03:00 PM**

Day *:* ***Monday***

Date: ***Monday, December 14, 2026***

Time *:* ***03:30 PM***

# E. Opening and Evaluation of Bids

**BDS Clause Number 13**
**ITB Number 23.1**

The Bids opening shall take place on **EPADS v2.0**.

Day *:* ***Monday***

Date: ***Monday, December 14, 2026***

Time *:* ***03:30 PM***

**ITB Number 29.2**

The procuring agency shall consider the following:
lump sum bid basis; or
items wise; or
Lot wise (contracts),

**ITB Number 30.1**

**BDS Clause Number 14**
**ITB Number 31.1**

Domestic Preference [applicable / not applicable]

**ITB Number 31.2**

Selection technique adopted will be:
The Procuring Agency shall use any of the following evaluation techniques for determination of successful bid.

Least Cost Base Selection (LCBS)
Quality and Cost Based Selection (QCBS)
Quality Based Selection (QBS)
[Insert the Evaluation Technique]

Selection technique adopted will be: **Least Cost Based Selection (LCBS)**
*see Evaluation Criteria*

# F. Review of Procurement Decisions

**BDS Clause Number 15**
**ITB Number 41.1**

Grievence against this procurement shall be submitted online on EPADS v2.0.

Arbitrator shall be appointed by mutual consent of the both parties.

**ITB Number 42.2**

The Address of PPRA Grievance Redressal Appellate Committee to submit a copy of grievance:

Grievance Redressal Appellate Committee,
Public Procurement Regulatory Authority
1st Floor, G-5/2, Islamabad, Pakistan
Tel: +92-51-9202254

# Eligibility Criteria

**All Active Taxpayers** shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

| Required Registration |
| --- |
| NADRA CITIZENSHIP (CNIC/NICOP) |
| FBR (NTN) |
| FBR (GSTN) |
| PEC |

| Eligibility Criteria | Document |
| --- | --- |
| Active FBR registration Attach copy showing name/date from FBR website. | Yes |
| Provincial Sales Tax registered Attach copy showing name/date from Authority website. | Yes |
| Endorse SLL complete tender document Seal / sign all pages | Yes |
| Site visit Visit site to evaluate conditions, logistics & hardships. | Yes |
| Not fulfilling commitments Any past LOI/PO AO issued or ever been cancelled by SLL | Yes |
| Presently the contractor is not blacklisted by any Govt. / Semi-Government / Private institution Provide Affidavit for last 3 years | Yes |

| | |
|---|---|
| Experience in supplying LPG pump package Supply of min. one LPG pump package. Client's completion certificate or similar document to be submitted | Yes |
| Bidder is registered with PEC Provide color copy of the registration certificate | Yes |

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# Evaluation Criteria

Eligibile bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

**Least Cost Based Selection (LCBS)**

**Weightage**

| Technical Evaluation % |
|---|
| 100 |

| Technical Marks | 100 |
|---|---|
| **Passing Marks** | **75** |
| Technical Evaluation Criteria | |
| Experience in supplying LPG pump package (Qualitative)(Doc Required)<br>Supply of more than one LPG pump package. **(25)**<br>Supply of min. one LPG pump package. **(20)** | 25 |
| Local partner/ agent of LPG pump manufacturer (Qualitative)(Doc Required)<br>Local partner/ agent of LPG pump manufacturer from Western Europe, USA, Japan or Canada **(25)**<br>Local partner/ agent of LPG pump manufacturer other than Western Europe, USA, Japan or Canada **(20)** | 25 |
| Experience of supplying similar capacity LPG pump package (Qualitative)(Doc Required)<br>Experience of supplying equal to or more than 120 MT/Hr. capacity LPG pump package **(25)**<br>Experience of supplying equal to or more than 60 MT/Hr. capacity LPG pump package **(20)** | 25 |

| Financial Evaluation Criteria | |
|---|---|
| Financial Statement (Qualitative)(Doc Required)<br>Audited **(10)** | 10 |
| Cash in Hand/ Turnover/ Bank as per last Financial Statement (Qualitative)(Doc Required)<br>PKR22 Million or above **(15)**<br>PKR15 Million or above **(10)**<br>PKR8 Million or above **(5)** | 15 |

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# Items/Lots

**Lot Title :** Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

**Bid Security :** 975000 PKR

| Item | UNSPSC | Delivery Schedule | Quantity | Manufacturer / Dealer Authorization | Warranty |
|---|---|---|---|---|---|
| Supply of LPG Pump-Electric Motor Set complete with Base frame/skid, Coupling and coupling guard, Mechanical seal etc. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/Qty | 1 / Qty | Dealer Authorization form | 18 Months |
| Construction and modification of the pump-motor set Civil Foundation | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |

| Item | UNSPSC | Delivery Schedule | Quantity | Manufacturer / Dealer Authorization | Warranty |
|---|---|---|---|---|---|
| Installation, testing and commissioning of LPG Pump-Electric Motor Set | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| Supply of pipes, fittings, valves, Relief/bypass system for pump's suction and discharge system. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| Construction and modification of suction and discharge piping according to the site conditions and with respect to the proposed pump-motor set. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |

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| Item | UNSPSC | Delivery Schedule | Quantity | Manufacturer / Dealer Authorization | Warranty |
|---|---|---|---|---|---|
| Supply, installation, testing and commissioning of Instrumentation and Control system. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| Supply, installation, testing and commissioning of associated Electrical equipment. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| Supply, installation, testing and commissioning of Control panel/interface. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

| Item | UNSPSC | Delivery Schedule | Quantity | Manufacturer / Dealer Authorization | Warranty |
|---|---|---|---|---|---|
| Supply, installation, testing and commissioning of soft starter for the LPG pump’s motor | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| To provide Safety Interlocks | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/Qty | 1 / Qty | -- | 18 Months |
| Recommended two years and commissioning spare parts | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | Dealer Authorization form | 18 Months |

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

| Item | UNSPSC | Delivery Schedule | Quantity | Manufacturer / Dealer Authorization | Warranty |
|---|---|---|---|---|---|
| FAT | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| Training of SLL operations team at SLL Port Qasim Terminal. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | -- |
| Special tools, if any. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/Qty | 1 / Qty | -- | 18 Months |

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

| Item | UNSPSC | Delivery Schedule | Quantity | Manufacturer / Dealer Authorization | Warranty |
|---|---|---|---|---|---|
| Any other additional required item or services, which did not mention above. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |
| Final testing, commissioning and satisfactory hand over of the entire New LPG Bowser Filling Pump Package to SLL operations team at SLL Port Qasim Terminal. | Centrifugal pumps | **Address:** SSGC-LPG Plot # NWZI/P-305, A4, LPG Area North West Industrial Zone Port Bin Qasim Karachi<br>**Schedule:** 34 weeks<br>**Quantity:** 1/job | 1 / job | -- | 18 Months |

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Related Services of Goods:

No

# Items/Lot Specification

**Lot Title :** Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

**Item:** Supply of LPG Pump-Electric Motor Set complete with Base frame/skid, Coupling and coupling guard, Mechanical seal etc.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

| Parameter | Minimum Technical Specification / Requirement. |
|---|---|
| Service | LPG transfer / road-bowser loading and filling. |
| Fluid | Commercial LPG – Propane & Butane mixture. |
| Pump Type | Horizontal, multistage centrifugal pump, specifically designed and suitable for LPG service. |
| Rated Capacity | 60–70 MT/hr. |
| Design Duty Point | Pump shall be capable of delivering minimum 60 MT/hr at the specified differential pressure and shall be capable of operating up to 70 MT/hr, subject to the manufacturer's certified performance curve. |
| Rated Differential Pressure | 8–10 bar(g). |

| Parameter | Minimum Technical Specification / Requirement. |
|---|---|
| Maximum Differential Pressure | ≥12 bar or as required to ensure the pump does not overload the motor under all specified operating conditions. |
| NPSH Available (NPSHA) | 9 ft (2.74 m) |
| Required NPSH (NPSHR) | ≤5 ft (1.52 m) at 60 MT/hr, based on manufacturer's certified performance curve. |
| NPSH Margin | Minimum 4 ft (1.22 m) between NPSHA and NPSHR at rated flow. |
| Pump Speed | 1500 RPM nominal, subject to manufacturer's final pump selection. |
| Suction Flange | Dia. 4-inch or Dia. 6-inch, Class 300, subject to final hydraulic design and existing piping. |
| Discharge Flange | Dia. 3-inch or Dia. 4-inch, Class 300, subject to final hydraulic design and existing piping |
| Shaft Sealing | API-type single, balanced, self-cooled/uncooled mechanical seal, specifically suitable for LPG service. |
| Pump Design Pressure | Minimum 20 bar(g) |
| Pump Design Temperature | Approximately −20°C to +60°C, or as required by the manufacturer's LPG service design |
| Relief / Bypass Protection | Integral or external bypass/relief arrangement suitable for the selected pump and system. For positive-displacement equipment, a pressure relief system shall be mandatory. For centrifugal pumps, overpressure protection shall be provided as required by the hydraulic/system design. |
| Motor Type | TEFC, squirrel-cage induction motor |

| Parameter | Minimum Technical Specification / Requirement. |
|---|---|
| Motor Duty | S1 – Continuous Duty |
| Motor Hazardous Area Protection | Flameproof / explosion-proof, suitable for the classified LPG hazardous area |
| Motor Rating | To be selected and guaranteed by the pump manufacturer based on the complete pump performance curve. |
| Motor Supply | 415 V, 3-phase, 50 Hz |
| Motor Efficiency | IE3 minimum |
| Motor Insulation | Class F minimum |
| Motor Temperature Rise | Class B temperature rise preferred |
| Motor Enclosure | IP66 minimum |
| Hazardous Area Certification | Suitable for the actual site classification and LPG service. ATEX/IECEx or equivalent internationally recognized certification acceptable, subject to SLL approval |
| Gas Group | IIC, where required by the site hazardous-area classification |
| Temperature Class | T4 or better, subject to site classification |
| Motor Certificate | Valid certificate for the complete motor/execution offered |
| Coupling | Flexible coupling suitable for rated motor power and speed, complete with robust non-sparking safety guard |
| Base Frame | Heavy-duty fabricated steel baseplate, machined and precision aligned. |

| Parameter | Minimum Technical Specification / Requirement. |
|---|---|
| Installation | Horizontal. |
| Area Classification | Equipment shall be suitable for the classified LPG hazardous area at SLL Port Qasim Terminal |
| Testing | Factory performance test, hydrostatic test, mechanical running test, vibration test and other applicable manufacturer’s routine tests. |
| Documentation | GA drawing, certified pump performance curve, NPSH curve, pump datasheet, motor datasheet, hazardous-area certificates, material certificates, test reports, installation instructions and O&M manuals. |

**Item:** Construction and modification of the pump-motor set Civil Foundation

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Design and construct the new RCC civil foundation recommended / suitable for new LPG pump

**Item:** Installation, testing and commissioning of LPG Pump-Electric Motor Set

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Electrical motor for LPG pump, Power rating is to be recommended by the bidder, 1500 RPM, 415 V, 3 phase, 50 Hz, Efficiency IE3 minimum, Insulation class F minimum, Motor temperature rise class B, Motor enclosure IP 66 minimum, Hazardous area certification, Explosion proof and suitable for LPG sevices.

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**Item:** Supply of pipes, fittings, valves, Relief/bypass system for pump’s suction and discharge system.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Supply & Installation Pump suction line dia.6" with strainer, 02 ball valves, 02 vent, 02 pressure gauges and Dry protection device with flanged pipe spools. Pump discharge dia. 4", 03 lines. First line to bowser filling line with PRV and exit to Tank return line. Second line to LPG Tank return line. Third line to LPG Tank return line through pressure regulating valve. All 04 lines with ball valve, NRV, HRV, vent and pressure gauge. All piping is ASTM A 106 Gr.B, sch.40, All flanges & valves are class 300. Each line is about 60 ft. in length. A drawing of suction & discharge network piping must be developed in order make actual BOQ.

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**Item:** Construction and modification of suction and discharge piping according to the site conditions and with respect to the proposed pump-motor set.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

New pump one suction & three discharge lines must be connected with already installed LPG piping network. 06 pipe steel supports must be constucted with RCC foundations. Additional 06 RCC foundations must be constructed for shed installation for pump / motor to protect from rain and sun light. The locations and levels will be maintained as per site requirement. A drawing must be developped with consultation of SLL engineer.

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**Item:** Supply, installation, testing and commissioning of Instrumentation and Control system.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standard and supplier / manufacturer recommendations.

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**Item:** Supply, installation, testing and commissioning of associated Electrical equipment.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standard and supplier / manufacturer recommendations.

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**Item:** Supply, installation, testing and commissioning of Control panel/interface.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Design & install the electrical control panel recommended / suitable for new LPG pump and as per standards and recommendations of Electrical Consultant. Control panel is about 300 meters away from new LPG pump. Approximate 800 meter power cable and control cable (suitable for pump) with dia. 6" PVC pipe (heavy duty)for under ground placement.

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**Item:** Supply, installation, testing and commissioning of soft starter for the LPG pump’s motor

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Soft starter must be installed as per design and recommended by Electrical Consultant / Manufacturer.

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**Item:** To provide Safety Interlocks

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standards and supplier / manufacturer recommendations.

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**Item:** Recommended two years and commissioning spare parts

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standards and supplier / manufacturer recommendations.

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PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

**Item:** FAT

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standards and supplier / manufacturer recommendations.

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**Item:** Training of SLL operations team at SLL Port Qasim Terminal.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standards and supplier / manufacturer recommendations.

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**Item:** Special tools, if any.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

As per standard and supplier / manufacturer recommendations.

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PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

**Item:** Any other additional required item or services, which did not mention above.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Delivery of all supply at SSGC LPG Terminal, Port Qasim, Karachi. Shifting at work place with Crane, Truck and Rigging work.

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**Item:** Final testing, commissioning and satisfactory hand over of the entire New LPG Bowser Filling Pump Package to SLL operations team at SLL Port Qasim Terminal.

**UNSPSC:** Centrifugal pumps

**Specifications / Requirements:**

Installation, alignment, levelling, greasing, leak test, vibration, temperature test, amperes check. Electrical, Mechanical and instrument operational. Monitor discharge pressure and LPG bowser filling and internal LPG transfer operation. Provide Technical data sheets, Mill Test Certificates of all supply, Calibration Certificates and complete Project report must be submitted.

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# Price Schedule

### For Individual Items

| # | Item Title | Quantity | Unit Price (PKR) | Total Price (PKR) | Delivery Location | Delivery Period / Year | Country of Origin |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | | |
| 2 | | | | | | | |

### For Lots

| # | Lot Title | Total Lot Price (PKR) | Country of Origin |
|---|---|---|---|
| 1 | [Lot 1 Title] | | |

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

# General Conditions of Contract

# A. General

## 1. Definitions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

a. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

b. The “Arbitrator” is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract GCC Clause 35 hereunder.

c. “Authority” means Public Procurement Regulatory Authority.

d. The “Commencement Date” is the date when the Supplier shall commence execution of the contract as specified in the SCC.

e. “Completion date” means the date of completion of the Contract by the Bidder as certified by the Procuring Agency.

f. “Procuring Agency” means:-

a. any Ministry, Division, Department or any Office of the Government;

b. any authority, corporation, body or organization established by or under a Law or which is owned or controlled by the Government;.

g. “The Contract” means an agreement enforceable by law;

h. “The Contract Price” means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations;

i. “Ancillary Services” means those services ancillary to the provision of Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Bidder covered under the Contract;

j. “GCC” means the General Conditions of Contract contained in this section;

k. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

l. **“**Day” means calendar day unless indicated otherwise.

m. “Defective Goods” are those goods which are below standards, requirements or specifications stated by the Contract.

n. “Delivery” means the transfer of the goods from the supplier equipment, machinery, and /or other materials which the Supplier is required to supply to the Procuring Agency under Contract.

o. “Effective Date” means the date on which this Contract comes into force and effect.

p. “Force Majeure” means an unforeseeable event which is beyond reasonable control of either Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part 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, explosion, storm, flood, epidemics, 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.

q. The Bidder” means the individual or corporate body whose Bids to provide the Goods has been accepted by the Procuring Agency;

r. “The Project Site,” where applicable, means the place or places named in Bids Data Sheet and technical Specifications;

s. “Government” means the Government of Pakistan;

t. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Goods.

u. The “Services” means the work to be performed by the Bidder pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Bidder’s Bids;

v. “Party” means the Procuring Agency or the Bidder, as the case may be, and “Parties” means both of them;

w. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

x. “Completion Date” means the date of completion of the contract by the Bidder as certified by the Procuring Agency;

y. “In Writing” means communicated in written form with proof of receipt;

z. “Local Currency” means the currency of Pakistan;

a. “Origin” means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.

b. “Specification” means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved by the Procuring Agency.

c. “Procuring Agency” means: -
any Ministry, Division, Department or any Office of the Federal Government;
any authority, corporation, body or organization established by or under a Federal Law or which is owned or controlled by the Federal Government;

## 2. Application and Interpretation

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

2.2 In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.

**3. Applicable Law**

3.1 The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

**4. Governing Language**

4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged between the Bidder and the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC**. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

**5. Notices**

5.1 Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

**6. Standard**

6.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, the American Standards (such as ACI, IEEE, ASME, etc.) or the Pakistani standards such as PSQCA Such standards shall be the latest issued by the concerned institution.

**7. Delivery/Location**

7.1 The Goods shall be delivered to such locations as the Procuring Agency may approve and as specified in SCC.

**8. Authorized Representatives / Authority of Member in charge**

8.1 Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Bidder may be taken or executed by the officials specified in the **SCC**.

## B. Commencement, Completion, Modification, and Termination of Contract

**8. Effectiveness of Contract**

8.1 This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the SCC.

**9. Commencement of the Contract**

9.1 The Bidder shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.

**10. Program**

10.1 Before commencement of the Contract, the Bidder shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

**11. Starting Date/Expiration Date**

11.1 The Bidder shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

11.2 Unless terminated earlier pursuant to Clause **GCC 16** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

**12. Entire Agreement**

12.1 This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

**13. Modification**

13.1 Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any Bids for modification or variation made by the other Party.

13.2 In cases of any modifications or variations, the prior written consent of the Procuring Agency is required.

**14. Force Majeure**

**14.1 Definition**

For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

**14.2 No Breach of Contract**

The failure of a Party to fulfill any of its obligations under the contract 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 (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

**14.3 Extension of Time**

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure. However, such period shall not exceed sixty (60) days.

**14.4 Payments**

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Bidder shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

**15. Termination**

**15.1 By the Procuring Agency**

The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Bidder in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

a. If the Bidder fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

b. If the Bidder becomes (or, if the Bidder consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

c. If the Bidder fails to comply with any final decision reached as a result of arbitration proceedings;

d. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

e. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

**15.2 By the Bidder**

The Bidder may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

a. If the Procuring Agency fails to pay any money due to the Bidder pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Bidder that such payment is overdue.

b. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.

c. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration.

d. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Bidder's notice specifying such breach.

# C. Obligations of the Bidder

**16. General**

**16.1 Standard of Performance**

1. The Bidder shall deliver the product and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

**16.2 Law Applicable to Goods**

The Bidder shall deliver the goods in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

**17. Conflict of Interests**

**17.1 Bidder Not to Benefit from Commissions and Discounts.**

The remuneration of the Bidder shall constitute the Bidder's sole remuneration in connection with this Contract or the Services, and the Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Bidder shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

**17.2 Bidder and Affiliates Not to be Otherwise Interested in Project**

The Bidder agree that, during the term of this Contract and after its termination, the Bidder and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Goods for any project resulting from or closely related to the Services.

**17.3 Prohibition of Conflicting Activities**

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

a. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

b. during the term of this Contract, neither the Bidder nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

**18. Confidentiality**

18.1 Except with the prior written consent of the Procuring Agency, the Bidder and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the contract.

**19. Insurance to be Taken Out by the Bidder**

19.1 The Bidder(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, loss or damage, and for the coverage, as shall be specified in the SCC; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing

that such insurance has been taken out and maintained and that the current premiums have been paid.

**20. Bidder's Actions Requiring Procuring Agency's Prior Approval**

20.1 The Bidder shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

(a) appointing such members of the Personnel not provided by the Bidder;

(b) changing the Program of activities; and

(c) any other action that may be specified in the SCC.

**21. Reporting Obligations**

21.1 The Bidder shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

**22. Liquidated Damages**

22.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in **SCC**. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 16.**

**22.2 Correction for Over-payment**

If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Bidder by adjusting the next payment certificate. The Bidder shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in SCC.

**22.3 Lack of performance penalty**

If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Bidder. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the SCC.

**23. Performance Guarantee**

23.1 The Performance Security (or Guarantee) shall be provided to the Procuring Agency no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form acceptable to the Procuring Agency as specified in SCC, and denominated in the types and proportions of the currencies in which the Contract Price is payable as specified in the SCC.

23.2 Within Seven (07) days from the issuance of acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape of ------- at the discretion of the PA in the amount **specified in SCC.** In case the amount of Bids security is equal or greater than

23.3 The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

23.4 The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in SCC.

23.5 The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

23.6 The bid security of the successful bidder shall not be substituted with the Performance Guarantee.

**24. Fraud and Corruption**

24.1 The Procuring Agency requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

**25. Sustainable Procurement**

25.1 The Bidder shall conform to the sustainable procurement contractual provisions, if and as specified in the SCC.

## D. Bidder's Personnel

**26. Description of Personnel**

26.1 The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Bidder's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

**27. Removal and/or Replacement of Personnel**

27.1 Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Bidder, it becomes necessary to replace any of the Key Personnel, the Bidder shall provide as a replacement a person of equivalent or better qualifications.

27.2 If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Bidder shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

27.3 The Bidder shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

## E. Obligations of the Procuring Agency

**28. Assistance and Exemptions**

28.1 The Procuring Agency shall use its best efforts to ensure that the Government shall provide the Bidder such assistance and exemptions as specified in the SCC.

**29. Change in the Applicable Law**

29.1 If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the related Services rendered by the Bidder, then the remuneration and reimbursable expenses otherwise payable to the Bidder under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the SCC.

**30. Services and Facilities**

30.1 The Procuring Agency shall make available to the Bidder and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described , at the times and in the manner specified in the SCC or terms of reference.

30.2 In case that such services, facilities and property shall not be made available to the Bidder, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Bidder for the performance of the Services, (ii) the manner in which the Bidder shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Bidder as a result thereof.

## F. Payments to the Bidder

**31. Contract Price**

31.1 The price payable shall be in Pakistani Rupees unless otherwise specified in the SCC. Prices charged by the Supplier for Goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its Bid.

**32. Terms and Conditions of Payment**

32.1 Payments will be made to the Bidder according to the payment schedule stated in the SCC and as per actual invoice submitted by the Bidder.

32.2 Unless otherwise stated in the SCC, the advance payment shall be made against the provision by the Bidder of a bank guarantee for the same amount, and shall be valid for the period stated in the SCC. Any other payment shall be made after the conditions listed in the SCC for such payment have been met, and the Bidder have submitted an invoice to the Procuring Agency specifying the amount due.

**33. Currency of Payment**

33.1 Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

## G. Quality Control

**34. Identifying Defects**

34.1 The principle and modalities of Inspection of the Goods by the Procuring Agency shall be as indicated in the SCC. The Procuring Agency shall check the Bidder’s performance and notify him of any Defects that are found. Such checking shall not affect the Bidder’s responsibilities. The Procuring Agency may instruct the Bidder to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the SCC.

**35. Correction of Defects, and**

**Lack of Performance Penalty**

35.1 The Procuring Agency shall give notice to the Bidder of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

35.2 Every time notice a Defect is given, the Bidder shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

35.3 If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the Bidder will pay this amount, and a Penalty for Lack of Performance.

**36. Taxes and Duties**

36.1 A Supplier shall be entirely responsible for all taxes, duties, fees, etc., incurred until delivery of the contracted Goods to the Procuring Agency.

## H. Settlement of Disputes

**37. Alternate Dispute Resolution**

37.1 Upon the commencement of the Procurement Contract, any disputes arising between the contracting parties shall be resolved in accordance with Rule 66 of the Public Procurement Rules, 2026.

37.2 The procuring agency may refer the matter to the Chief Justice Islamabad High Court or Managing Director PPRA or the Secretary Ministry of Law & Justice for appointment of Arbitrator.

37.3 The fee for the Arbitrator shall be specified in Pak Rupees as determined by the appointing authority which shall be borne and shared equally by the contracting parties.

**38. Change Orders**

The Procuring Agency may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

a)Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
b)The method of shipment or packing;
c)The place of delivery; and/or
d)The Services to be provided by the Supplier.

**39. Contract Amendenments**

39.1 Subject to GCC Clause 32, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**40. Sub-Contracts**

40.1 The Supplier shall consult the Procuring Agency in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Supplier's obligations.

# Special Conditions of Contract

# *SECTION VIII. SPECIAL CONDITIONS OF CONTRACT*

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

***Number of GC Clause***

*Amendments of, and Supplements to, Clauses in the General Conditions of Contract*

**Number of GC Clause 1**

**Definitions**

The Procuring Agency is: **SSGC-LPG Ltd. (SSGC-LPG Limited), Assistant Manager SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).**

The Supplier is:

The title of the subject procurement is: **Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package**

**Number of GC Clause 3**

**Applicable/Governing Law:**

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

**Number of GC Clause 4**

**Language:**

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

**Number of GC Clause 5**

**Notices:**

The addresses for the notices are:

The Authority:

**SSGC-LPG Ltd. (SSGC-LPG Limited), Assistant Manager**
**SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).**
**+92-322-821-3169**
**fahad.zia@ssgclpg.com**

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

[Name, address, telephone number and e-mail address]

**Number of GC Clause 7.1**

The Authorized Representatives are:

For the Procuring Agency:

**SSGC-LPG Ltd. (SSGC-LPG Limited), Assistant Manager**
**SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).**
**+92-322-821-3169**
**fahad.zia@ssgclpg.com**

For the Bidder:

**Name: ……**

**Designation: ……..**

**Address: ……..**

**Number of GC Clause 8**

Effectiveness of the contract

**Number of GC Clause 9**

Commencement of Contract:

**Number of GC Clause 11.2**

Expiration of Contract:

**Number of GC Clause 15**

**Termination**

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

**Number of GC Clause 17**

**Conflict of Interest:**

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17**.**

**Number of GC Clause 22**

**Liquidated Damages**

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.10%** to **10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

**Number of GC Clause 23**

**Performance Guarantee:**

Instrument of Performance Guarantee shall be in the Name of : **SSGC-LPG Ltd.**

The amount of performance guarantee shall be **10.00%** of the contract price in acceptable form of **Pay Order, Bank Guarantee**

**Number of GC Clause 32**

**Payment terms:**

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

**Number of GC Clause 33**

**Currency of Payment:**

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

**Number of GC Clause 34**

**Identifying Defects:**

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

## Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

For conformance to specifications and performance parameters, through Prior to delivery inspection (Inspection Report by Procurement Committee / Inspection Team)

For successful operation at site after complete installation, testing and commissioning of the equipment (Installation, Testing and Commissioning Report by Procurement Committee / Inspection Team)

SITE TESTING AND COMMISSIONING:After installation, the Contractor shall perform complete site commissioning.• The following shall be verified:• Correct pump rotation• Pump/motor alignment• Suction

pressure• Discharge pressure• LPG flow• Motor current• Motor voltage• Vibration• Bearing temperature• Mechanical seal condition• Emergency stop• Low-suction trip• Dry-run protection• High-pressure protection• Interlocks• Local/remote operation

The pump shall demonstrate stable operation at the required operating capacity.PERFORMANCE GUARANTEE:The Contractor shall guarantee that the supplied pump shall achieve:Minimum Capacity: 60 MT/hr.Maximum Required Capacity: 70 MT/hr.Differential Pressure: 8–10 bar(g)NPSHR: ?5 ft (1.52 m) at 60 MT/hr.NPSHA: 9 ft (2.74 m)

1. DESIGN DUTY REQUIREMENTS The proposed LPG pump shall be designed for reliable and continuous transfer of commercial LPG from the terminal storage tanks to road tankers/bowsers. The pump shall meet the following minimum duty requirements: • Capacity: 60–70 MT/hr • Minimum guaranteed operating capacity: 60 MT/hr • Maximum required operating capacity: 70 MT/hr • Differential pressure: 8–10 bar(g) • Maximum differential pressure: minimum 12 bar • NPSH Available: 9 ft (2.74 m)

• Maximum permissible NPSHR: 5 ft (1.52 m) at 60 MT/hr • LPG density: Bidder shall consider the applicable LPG composition; design basis approximately 0.51–0.57 kg/L • Motor supply: 415 V, 3-phase, 50 Hz • Motor duty: S1 continuous • Motor efficiency: IE3 minimum • Hazardous area: LPG classified area The bidder shall verify the above duty conditions and shall submit hydraulic calculations demonstrating that the proposed pump is suitable for the actual SLL installation.

2. PUMP PERFORMANCE CURVE The bidder shall submit a certified pump performance curve covering the complete operating range. The curve shall show, as a minimum: 1. Capacity vs. differential pressure/head. 2. NPSHR vs. capacity. 3. Pump efficiency vs. capacity. 4. Power absorbed vs. capacity. 5. Recommended operating range. 6. Minimum continuous stable flow. 7. Shut-off head. 8. Maximum allowable operating point.

The curve shall clearly demonstrate operation at: • 60 MT/hr. • 65 MT/hr. • 70 MT/hr. at the specified differential pressure. The pump shall not operate outside the manufacturer's recommended operating range during normal operation.

DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID: The bidder shall submit: 1. Manufacturer and model. 2. Pump datasheet. 3. Certified pump performance curve. 4. NPSH curve. 5. Power consumption curve. 6. Efficiency curve. 7. GA drawing. 8. Pump sectional drawing. 9. Foundation/baseplate drawing. 10. Motor datasheet. 11. Motor performance data. 12. Hazardous-area certificate. 13. Mechanical seal datasheet. 14. Coupling details. 15. Material specifications. 16. Hydrostatic test procedure.

17. FAT procedure. 18. Installation requirements. 19. Recommended spare-parts list. 20. O&M requirements. 21. Previous relevant installation references. 22. Complete technical compliance statement.

BIDDER TECHNICAL COMPLIANCE The bidder shall provide a detailed compliance statement against every requirement of this specification. Each item shall be marked: COMPLY / DEVIATION / NOT APPLICABLE Any deviation shall be clearly identified and technically justified. Silence or failure to identify a deviation shall not be considered acceptance of a deviation.

RECOMMENDED SPARES The bidder shall submit a separate price schedule for recommended commissioning and two-year operational spare parts, including as applicable: • Mechanical seal • Bearings • O-rings • Gaskets • Coupling element • Wear rings • Seal components • Instrument spares • Motor bearings • Other critical pump components

KEY TECHNICAL REQUIREMENTS-MANDATORY The following shall be considered mandatory technical requirements: 1. Pump shall be specifically suitable for LPG service. 2. Horizontal multistage centrifugal pump. 3. Minimum capacity: 60 MT/hr. 4. Required operating range: 60–70 MT/hr. 5. Differential pressure: 8–10 bar(g). 6. Maximum differential pressure: ?12 bar. 7. NPSHA: 9 ft (2.74 m). 8.

NPSHR: ?5 ft (1.52 m) at 60 MT/hr. 9. Minimum NPSH margin: 4 ft (1.22 m).

10. Pump design pressure: minimum 20 bar(g). 11. Motor: 415 V, 3-phase, 50 Hz. 12. Motor: S1 continuous duty. 13. Motor efficiency: IE3 minimum. 14. Motor insulation: Class F minimum. 15. Motor enclosure: IP66 minimum. 16. Motor shall be certified for the applicable LPG hazardous area. 17. Motor shall be non-overloading throughout the specified operating range. 18. Dry-run/low-suction protection shall be provided. 19. Complete pump performance and NPSH curves shall be submitted.

20. Factory performance and mechanical tests shall be conducted. 21. Site performance test shall demonstrate the specified duty. 22. Complete hazardous-area certificates shall be submitted. 23. Pump shall be suitable for continuous operation at SLL Port Qasim Terminal. 24. All equipment shall be suitable for the existing LPG system and site conditions.

IMPORTANT BIDDER CONFIRMATION The bidder shall provide the following explicit statement in the technical offer: "We confirm that the proposed LPG pump-motor set has been selected based on the specified operating conditions of 60–70 MT/hr capacity, 8–10 bar(g) differential pressure and NPSHA of 9 ft (2.74 m). We further confirm that the pump NPSHR at 60 MT/hr. shall not exceed 5 ft (1.52 m),

and that the selected motor is adequately sized and shall not overload anywhere over the specified pump operating range, including maximum absorbed power conditions."

FINAL TECHNICAL NOTE The final pump selection shall be based on the actual hydraulic conditions of the SLL Port Qasim Terminal, including suction pressure, discharge pressure, static head, pipe friction losses, LPG density/composition and available NPSH. The bidder shall not finalize the pump solely on the basis of the nominal capacity. The successful bidder shall verify the complete system during the site survey and shall be responsible for supplying a pump-motor set capable of safely &

reliably achieving the specified bowser filling duty. STRAINER / FILTER A suitable LPG-compatible suction strainer shall be provided where required by the pump manufacturer. The strainer shall be sized so that pressure drop is minimized and adequate NPSH is maintained. The bidder shall state: • Mesh size. • Filtration area. • Pressure rating. • Material. • Pressure drop at rated flow. The arrangement shall permit safe cleaning and maintenance.

VALVES All valves associated with the pump package shall be suitable for LPG service and shall have appropriate pressure and temperature ratings. The following shall be provided as required: • Suction isolation valve. • Discharge isolation valve. • Check valve. • Bypass valve. • Relief valve. • Drain valve. • Vent valve. Valve material and pressure class shall be stated.

EARTHING AND BONDING The complete pump skid, motor, piping and associated metallic components shall be properly electrically bonded and connected to the existing plant earthing system. The Contractor shall provide all necessary: • Earth lugs • Bonding jumpers • Earthing conductors • Connection hardware The earthing arrangement shall be tested and documented during commissioning.

PAINTING / CORROSION PROTECTION All external carbon-steel surfaces shall be properly prepared and coated with a suitable industrial coating system for the Port Qasim environment. The coating system shall be suitable for: • Marine atmosphere • Humidity • LPG terminal environment • Outdoor installation The bidder shall provide the proposed coating specification.

SITE INSTALLATION The Contractor shall be responsible for complete installation of the supplied pump package. Installation shall include: • Removal of existing equipment where specified. • Positioning of new pump. • Foundation preparation/modification, if required. • Pump/motor installation. • Alignment. • Piping connections. • Valve installation. • Electrical connections. • Instrumentation. • Earthing. • Control wiring. • SCADA/control system interface. • Painting/touch-up. • Testing.

All installation work shall be carried out by qualified and experienced personnel. PRE-COMMISSIONING The Contractor shall conduct complete pre-commissioning checks, including: • Mechanical inspection. • Piping inspection. • Flange inspection. • Valve operation. • Bolt tightening. • Pump rotation check. • Motor insulation resistance test. • Cable continuity test. • Earthing test. • Instrument calibration. • Control logic verification. • Emergency shutdown verification. • Interlock verification.

• Lubrication check. • Seal inspection. COMMISSIONING AND PERFORMANCE TEST The Contractor shall commission the pump in the presence of SLL representatives. The performance test shall demonstrate that the pump can achieve the specified operating capacity under actual site conditions. The minimum demonstrated capacity shall be: 60 MT/hr LPG. The Contractor shall record: • LPG flow rate. • Suction pressure. • Discharge pressure. • Differential pressure. • Motor current. • Motor voltage.

• Pump speed. • Vibration. • Bearing temperature. • Seal condition. • Operating duration. The pump shall operate smoothly without abnormal vibration, noise, overheating or LPG leakage. PERFORMANCE GUARANTEE The bidder shall guarantee: 1. Minimum rated capacity of 60 MT/hr. 2. Suitable NPSH performance. 3. Pump efficiency. 4. Motor power consumption. 5. Mechanical integrity. 6. No unacceptable LPG leakage. 7. Vibration within manufacturer's/API applicable limits.

6. No unacceptable LPG leakage. 7. Vibration within manufacturer's/API applicable limits. 8. Reliable continuous-duty operation. VIBRATION AND NOISE Pump vibration shall be measured during commissioning. The measured vibration shall be within the manufacturer's specified limits and applicable international standards. The bidder shall provide the allowable vibration limits with the technical offer. Abnormal noise, vibration or resonance shall be considered unacceptable.

SPARE PARTS The supplier/ bidder shall quote separately for recommended commissioning and two-year operational spare parts. The recommended spare parts shall include, as applicable: • Mechanical seal. • O-rings. • Gaskets. • Bearings. • Wear rings. • Coupling elements. • Pump shaft components. • Relief valve spares. • Motor bearings. • Instrument spares. • Other critical consumables. A complete spare-parts list with part numbers and quantities shall be submitted

SPECIAL TOOLS All special tools required for operation and maintenance of the pump shall be identified and quoted separately. Where manufacturer-specific special tools are required, these shall be included in the supply unless otherwise agreed by SLL. DOCUMENTATION The Contractor shall provide complete technical documentation, including: Before Supply • Technical datasheet. • Pump performance curve. • NPSH curve. • GA drawing. • Foundation drawing.

• Piping connection details. • Motor datasheet. • Hazardous-area certificates. • Material specifications. • Seal datasheet. • Electrical drawings. • Control philosophy. • Cause & Effect Matrix. • Installation requirements. After Supply: • As-built drawings. • Operation & Maintenance Manual. • Spare parts list. • Recommended maintenance schedule. • Test certificates. • FAT report. • Hydrostatic test certificate. • Material certificates. • Calibration certificates. • Motor test certificate.

• Hazardous-area certificates. • Site commissioning report. • Performance test report. All documents shall be provided in English.

TRAINING The Contractor shall provide operational and maintenance training to SLL personnel. Training shall cover: • Pump operation. • Start-up/shutdown procedure. • Emergency shutdown. • Routine inspection. • Mechanical seal monitoring. • Lubrication. • Troubleshooting. • Preventive maintenance. • Spare-parts replacement. • Safety precautions. Training shall be conducted at SLL Port Qasim Terminal after commissioning.

SAFETY REQUIREMENTS All work shall be carried out in accordance with SLL safety requirements and applicable statutory regulations. The Contractor/ bidder shall comply with: • Permit-to-work system. • Gas testing requirements. • Hot-work restrictions. • Electrical safety requirements. • Lock-out/tag-out

requirements. • PPE requirements. • LPG safety procedures. • Emergency response requirements. No hot work or modification in the LPG system shall be undertaken without written approval from SLL.

HAZARDOUS AREA COMPLIANCE All electrical and instrumentation equipment installed within classified hazardous areas shall be certified for the applicable hazardous-area classification. The bidder shall submit valid certificates from recognized certification bodies. Certificates shall clearly identify the applicable: • Zone/Class • Gas group • Temperature class • Equipment protection level/category • Certification standard

SLL reserves the right to reject any equipment for which hazardous-area certification is incomplete, invalid or not applicable to the installation area.

CODES AND STANDARDS The equipment shall comply with the latest applicable editions of recognized international standards, including, where applicable: • ASME B16.5 – Pipe flanges and flanged fittings. • ASME B31.3 – Process Piping. • NFPA 58 – Liquefied Petroleum Gas Code, where applicable. • Applicable local statutory and regulatory requirements. • SLL engineering and safety standards.

SITE SURVEY Before finalizing the pump selection, the successful bidder shall conduct a detailed site survey. The survey shall verify: • Existing pump arrangement. • Pump foundation. • Existing suction piping. • Existing discharge piping. • Pipe sizes. • Flange ratings. • Suction pressure. • Discharge pressure. • Static head. • NPSHA. • Electrical supply. • Hazardous-area classification • Existing control system. • Available space. • Access for maintenance. • Existing bowser filling arrangement

The Contractor/ bidder shall be responsible for ensuring that the supplied equipment is physically and technically compatible with the existing installation.

WARRANTY The complete pump-motor package shall have a minimum warranty of: 12 months from commissioning or 18 months from delivery, whichever occurs earlier. A longer warranty period offered by the bidder shall be considered favorably. • The warranty shall cover defects in: • Pump • Motor • Mechanical seal • Bearings • Coupling • Baseplate • Instruments • Electrical/control equipment supplied under the contract • Workmanship

TECHNICAL BID SUBMISSION The technical bid shall include a completed compliance statement against every requirement of this specification. The bidder shall clearly state: "Comply / Deviate / Not Applicable" against each requirement. Any deviation shall be clearly identified and technically justified. Failure to disclose a deviation shall not relieve the Contractor from compliance with the tender requirements.

ACCEPTANCE CRITERIA The equipment shall be accepted by SLL only after satisfactory completion of: • Supply inspection. • FAT. • Site installation. • Pre-commissioning. • Commissioning. • Performance testing. • Demonstration of minimum 60 MT/hr capacity. • Verification of safety interlocks. • Verification of hazardous-area compliance. • Submission of complete documentation. • Training of SLL personnel.

IMPORTANT TECHNICAL REQUIREMENT • The bidder shall not merely offer a pump having a nominal capacity of 60 MT/hr. • The complete pump package shall be hydraulically checked against SLL's actual LPG system, including: • Storage Tank ? Suction Line ? LPG Pump ? Discharge Line ? Bowser Filling System • The bidder shall confirm that the proposed pump can reliably deliver minimum 60 MT/hr at the required discharge pressure while maintaining adequate NPSH margin.

• The supplier shall also confirm that the pump will not cause excessive pressure drop, cavitation or unacceptable operating conditions in the existing LPG system.

TURNKEY RESPONSIBILITY • The successful Contractor shall be responsible for supplying a complete, safe and operational LPG Bowser Filling Pump system. • Any item necessary for safe and reliable operation but inadvertently omitted from the bidder's price shall be deemed included in the Contractor's scope where it

is normally required for a complete installation.

• No additional payment shall be made for such items where they are necessary to achieve the specified performance and safe operation of the system.

Civil Foundation • Construction of a suitable RCC foundation for the new pump-motor set. • Foundation shall be designed to accommodate the pump, motor and base frame, including anchor bolts. • Proper leveling, grouting and alignment provisions shall be provided. • Existing foundation/site conditions shall be verified before execution.

• The contractor shall design, construct, and complete the required RCC civil foundations for the new LPG bowser filling pump package, including excavation, PCC/RCC works, reinforcement steel, formwork, anchor bolts, grouting, leveling, and finishing. The foundation shall be suitably designed to withstand the static and dynamic loads of the pump-motor package and shall be properly integrated with the existing floor/pavement level and drainage arrangement.

• All civil works shall be completed in accordance with the approved equipment foundation drawing and applicable engineering standards.

LPG Suction and Discharge Piping • Supply, fabrication and installation of all required LPG suction and discharge piping to connect the new pump with the existing LPG piping network. • Scope shall include all required pipe spools, flanges, gaskets, bolts, supports, reducers, valves and other fittings. • Piping shall be suitable for LPG service and compatible with the existing piping pressure class.

• Final pipe sizes and routing shall be verified at site based on the pump manufacturer's requirements and existing network. • All piping modifications shall be hydrostatically/pneumatically tested, as applicable and in accordance with approved safety procedures, before commissioning. • Existing LPG system shall not be modified without prior approval of SLL. • The contractor shall prepare a detailed and itemized Bill of Quantities (BOQ) for the pump suction and discharge piping spools,

, based on the approved piping isometric drawings. • The BOQ shall include all required pipes, elbows, tees, reducers, flanges, gaskets, bolts/nuts, valves, strainers, supports, fittings, welding consumables, fabrication, NDT/testing, painting/coating, installation, and associated accessories. • All materials shall be suitable for LPG service and shall comply with the approved piping material specification and applicable standards.

• The contractor shall be responsible for the complete fabrication, supply, installation, testing, and commissioning of the piping spools. Note: Details of welding, painting and sandblasting procedures is attached.

Electrical Power Supply • Supply and installation of appropriately sized electrical cable from the designated power source to the new pump motor. • Cable sizing shall be based on motor rated current, starting method, voltage drop, installation conditions and applicable electrical standards. • Supply and installation of suitable cable glands, lugs, termination kits, conduits/trays and other accessories.

• Complete earthing and bonding of the motor, pump skid and associated metallic components shall be provided.

Motor Starting and Control System • Provision of a suitable motor starter/control arrangement for the new pump. • The system shall include: • Start/Stop facility; • Local/Remote selector, where required; • Emergency Stop; • Motor overload protection; • Short-circuit protection; • Phase failure/reversal protection; • Under/over-voltage protection, where applicable; • Running indication; • Trip/fault indication.

• The starting method shall be selected considering the motor rating and existing electrical system.

Soft Starter: • The electric motor shall be provided with a suitable electronic soft starter for controlled starting of the LPG pump. • Soft starter shall be properly sized and rated for the motor's full-load current and starting duty. • The soft starter shall provide adjustable voltage/current ramp-up to ensure smooth acceleration of the pump and minimize starting current and mechanical/electrical stresses.

• Soft starter shall include, as a minimum, overload protection, phase-loss protection, over/under-voltage protection, and motor thermal protection. • The soft starter shall be housed in a suitable IP-rated electrical panel/enclosure and shall be suitable for the applicable hazardous/non-hazardous area installation requirements.

• The system shall include suitable bypass contactor arrangement, where applicable, to allow the motor to operate on full voltage after starting and reduce losses during normal operation. • Necessary start/stop controls, indication, interlocking, emergency stop and interface with the existing control system shall be provided. • Complete supply, installation, cabling, termination, testing and commissioning of the soft starter shall be included in the contractor's scope.

The LPG pump motor shall be started through a suitably rated electronic Soft Starter. The Soft Starter shall be selected based on the motor's rated current and starting characteristics and shall provide controlled acceleration, reduced starting current and protection against electrical and motor-related faults. Complete Soft Starter panel, bypass arrangement, protection, control, indication, cabling, installation, testing and commissioning shall be included in the scope of supply.

Safety Interlocks The new pump shall be integrated with the required safety interlocks, including low suction pressure/dry-run protection. Pump shutdown shall be initiated automatically under unsafe operating conditions. Emergency shutdown functionality shall be provided in accordance with the existing LPG terminal safety system.

Hazardous Area Requirements All electrical equipment, junction boxes, cable glands, switches and other equipment installed within the classified LPG area shall be suitable for the applicable hazardous-area classification. The Contractor shall provide valid hazardous-area certificates for applicable equipment.

Isometric and P&I Drawings The contractor shall prepare and submit detailed Piping Isometric and Piping & Instrumentation (P&I) Drawings for the new LPG bowser filling pump installation. The drawings shall clearly indicate the pump suction and discharge piping, valves, fittings, strainers, instruments, pressure gauges, safety devices, drains/vents, tie-in points with the existing LPG piping network, pipe sizes, specifications, flow direction, and relevant equipment identification numbers.

Drawings shall be submitted for SLL review and approval prior to commencement of fabrication and installation.

Testing and Commissioning Complete testing of civil, mechanical, piping and electrical installations shall be carried out before commissioning. Pump rotation, motor insulation, cable continuity, earthing, protection settings, interlocks and emergency shutdown shall be verified. The contractor shall commission the complete pump system and demonstrate the required 60–70 MT/hr. LPG filling capacity under the specified operating conditions.

FINAL DELIVERABLE The final installation shall be handed over to SLL as a fully operational LPG Bowser Filling Pump Package, tested and commissioned, with all required documentation, certificates, drawings, spare parts, training and performance guarantees. The Contractor/ bidder shall remain responsible for rectification of any defects identified during commissioning and the warranty period.

Welding Procedure & Standard (WPS & WPQ) Welders to be employed by the Bidder may undergo a test as per ASME SEC IX and ASME/ANSI B16.3; welders declared qualified by the Company Site Representatives can only be employed on the job. Welding of joints will be carried out by SMAW

procedures. All welding works to be done with E7018 welding electrode with mobile or DC welding machine. Root joint to be welded with 6010/E7018 or as advised by SLL electrode and with argon welding method.

The welding electrodes should be preheated as per standard in oven. Cost of welder's qualification, through OGRA approved hired TPIA or as advised by SLL Site Representative, to be borne by the Bidder. 100% radiography of all weld joints is in bidder's scope.

Sandblasting Procedure Sandblasting complete setup to be used along with hopper, hose pipes, relief valve must have a valid fitness certificate approved from reputable inspection agency. Sandblasting operator shall wear special coverall, eye and face protection, shoes and gauntlet gloves for the protection of re-bounding abrasives. Positive pressure respirator helmet shall be used. Earthing of sandblast pot and nozzle shall be done.

The sandblast pot must be provided with automatic safety shut down valve. The sandblasting pot must have safety relief valve. The breathing air should be supplied from screw type or oil free compressor or BOC synthetic air cylinders. In case oil lubricated compressor is to be used then it must be equipped with calibrated carbon mono oxide detection unit. Sandblasting nozzles shall be equipped with dead man switch.

Piping Cleaning Procedure All piping spools as well as completed piping shall be thoroughly cleaned by blowing high pressure air through the spools leaving no welding leftover, dust or other unwanted material in the piping before connecting on locations. Piping top steel surfaces to be free of oil, grease, dirt, dust, mill scale, rust and paint.

Painting Procedure • Apply paint when the surface is completely dry & to be witnessed by SLL Site Engineer/ representative. • Soon after sandblasting, apply two coats of Zinc rich epoxy primer paint (60% sold content) on the pipeline, pipe supports and associated steel structure. • Apply two coats of high build epoxy intermediate paint (surface tolerant paint, 80 to 90% solid content) • Apply finish two coats of Polyurethane paint (solid content 60%), white color.

• Apply color code (different colors of piping & structure) as per SLL prevailing color scheme. • Overall thickness of the applied paint should be over 300 microns. Bidder to arrange calibrated paint thickness meter to determine paint thickness. • Piping color code to be followed for different services as per SLL engineer instruction before paint. • Hand brush/ roller paint shall be acceptable.

• Calibrated paint thickness meter is to be provided by the Bidder & used to verify paint thickness. • All underground piping to be double wrapped; before wrapping and soon after sandblasting, apply two coats of zinc rich epoxy primer paint followed equal number coats of high build epoxy intermediate paint. Note: Sandblasting and welding works to be carried out in the designated area, outside the LPG tank area, as advised by SLL

## Delivery & Documents

Copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Insurance Certificate;

Manufacturer’s or Supplier’s Valid Warranty Certificate;

Inspection Certificate issued by the Nominated Inspection Agency (if any), and the Supplier’s Factory Inspection Report;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

3. CRITICAL NPSH REQUIREMENT The pump shall be specifically selected for the low available suction head at the installation. Design Basis NPSHA = 9 ft (2.74 m) The pump's certified NPSHR shall not exceed 5 ft (1.52 m) at 60 MT/hr. Accordingly, the minimum NPSH margin shall be: NPSHA ? NPSHR ? 4 ft (1.22 m) The bidder shall submit a manufacturer's certified NPSH curve demonstrating compliance. The pump shall be capable of operating continuously at the specified duty without:

• Cavitation; • Excessive vibration; • Abnormal noise; • Loss of capacity; • Mechanical seal damage; • Bearing damage. The bidder shall specifically state the NPSHR at: • 60 MT/hr. • 65 MT/hr. • 70 MT/hr.

NPSHR shall not be accepted solely on the basis of a general catalogue value. The value shall be supported by the manufacturer's certified performance data.

4. LPG DENSITY / HYDRAULIC DESIGN BASIS For pump hydraulic calculations, the bidder shall consider the actual LPG composition handled at SLL. For preliminary selection, the following density range shall be considered: 0.51–0.57 kg/L (510–570 kg/m³) The bidder shall clearly state the density used for: • Pump selection • Hydraulic calculations • Power calculation • NPSH calculation The final pump shall remain suitable for the applicable LPG composition and density range.

5. MOTOR SIZING & Soft Starter The motor shall be selected by the pump manufacturer based on the complete certified pump performance curve, rather than merely the nominal duty point. The motor shall have sufficient capacity to operate the pump without overloading. Motor sizing requirement The motor rated power shall provide a minimum 10–15% margin above the maximum absorbed pump power over the specified operating range. The bidder shall submit: • Pump absorbed power curve; • Motor rated power

• Motor efficiency • Full-load current • Power factor • Starting current • Motor service factor • Maximum absorbed pump power • Non-overloading requirement The pump/motor combination shall be non-overloading across the entire specified operating range, including: • Minimum flow • Rated flow • Maximum flow • Maximum differential pressure • Maximum absorbed pump power The motor shall not exceed its rated current or thermal limits during operation.

Motor sizing shall therefore be based on the maximum power absorbed anywhere on the applicable pump curve, and not only on the 60 MT/hr. operating point.

6. MOTOR HAZARDOUS AREA REQUIREMENTThe motor shall be suitable for installation in the LPG hazardous area at SLL Port Qasim Terminal. The bidder shall provide a valid certificate showing the actual protection concept and hazardous-area suitability. The motor shall preferably comply with recognized international hazardous-area standards such as:• IEC 60079 series• ATEX 2014/34/EU• IECEx• or equivalent internationally recognized certification acceptable to SLL.

The certificate shall clearly identify:• Equipment protection type• Gas group• Temperature class• Equipment category/EPL• Certificate number• Certifying authority• Applicable standard

ImportantThe bidder shall not simply state "ATEX Ex II 2G" without providing the complete certification marking. The final hazardous-area classification shall be verified against the actual classified area at SLL

Port Qasim Terminal.7. MOTOR INSULATION AND TEMPERATURE RISEThe motor shall have:• Class F insulation minimum• Class B temperature rise preferred• S1 continuous-duty rating• IE3 minimum efficiency• IP66 enclosure

Class F insulation shall be considered a thermal insulation requirement and shall not be considered a substitute for hazardous-area certification.

8. MECHANICAL SEALThe pump shall be provided with a single balanced mechanical seal suitable for LPG service.The mechanical seal shall be:• LPG compatible• Suitable for minimum 20 bar(g) design pressure• Suitable for the specified temperature range• Suitable for continuous operation• Self-cooled/uncooled where permitted by the manufacturer's designThe bidder shall state the seal:• Manufacturer• Model• Face materials• Elastomer material• Spring material• Pressure rating

• Temperature rating• Recommended replacement intervalThe seal arrangement shall minimize LPG leakage and shall be suitable for hazardous-area service.

9. DRY-RUN / LOW-SUCTION PROTECTIONThe pump shall be provided with a dedicated dry-run / low-suction protection system. The system shall prevent the pump from starting or continuing to operate when adequate suction conditions are not available.The protection system shall be integrated with the pump start/trip logic. The bidder shall propose the most suitable method, such as:• Low suction pressure switch/transmitter• Low tank level interlock• Minimum flow protection

• Combination of suction pressure and tank level protectionThe protection shall provide a positive trip signal to stop the pump under unsafe suction conditions. The bidder shall submit the proposed Cause & Effect / Interlock Logic for SLL approval.

10. OVERPRESSURE / BYPASS PROTECTIONThe pump system shall be protected against excessive discharge pressure. The bidder shall provide an appropriate relief/bypass arrangement (for example pressure regulating valve) based on the selected pump type and actual hydraulic system.For a centrifugal pump, the bidder shall demonstrate that the pump shut-off head does not exceed the allowable pressure of the downstream system. Where required, a suitable relief/bypass valve shall be provided.

Any LPG bypass/relief flow shall be safely routed back to the appropriate LPG system and shall not be discharged directly to atmosphere.

11. PUMP CASING AND PRESSURE CONTAINMENTThe pump shall have a minimum design pressure of:20 bar(g)All pressure-containing components shall be rated accordingly.The bidder shall submit• Design pressure• Hydrostatic test pressure• Maximum allowable working pressure;• Design temperature• Casing material• Pressure rating of flangesThe pump pressure rating shall be compatible with the existing LPG piping system.

12. CONNECTIONSFinal connection sizes shall be confirmed through the bidder's hydraulic design and site survey.Indicative requirements:SuctionDia. 4-inch or Dia. 6-inch, Class 300DischargeDia. 3-inch or Dia. 4-inch, Class 300The bidder shall verify the existing SLL piping arrangement before finalizing the pump connections. Any reducer, spool piece, flange, gasket, bolt, support or other component necessary for proper installation shall be included in the scope.

13. COUPLING AND BASEPLATEThe pump and motor shall be mounted on a heavy-duty fabricated steel baseplate.The baseplate shall be:• Rigid• Properly machined• Suitable for continuous-duty operation• Suitable for precise pump/motor alignment• Provided with suitable anchor pointsA flexible coupling shall be provided where applicable. The coupling shall be provided with a suitable protective guard.

Final alignment shall preferably be performed using laser alignment equipment or as approved by SLL, and the alignment report shall be submitted to SLL.

14. FACTORY ACCEPTANCE TESTINGBefore dispatch, the complete pump shall undergo factory testing.Minimum testing shall include:Pump• Hydrostatic pressure test• Mechanical running test• Performance test• Capacity verification• Differential pressure verification• NPSH verification/data• Vibration measurement• Noise measurement• Mechanical seal inspection

Motor• Routine electrical tests• Insulation resistance• Winding resistance• No-load current• Efficiency• Power factor• Temperature-rise verification, where applicable• Hazardous-area certification verificationThe FAT shall be conducted in accordance with the applicable manufacturer's standards and relevant international standards. SLL reserves the right to witness the FAT or appoint a Third-Party Inspection Agency.

15. SITE TESTING AND COMMISSIONINGAfter installation, the Contractor shall perform complete site commissioning.• The following shall be verified:• Correct pump rotation• Pump/motor alignment• Suction pressure• Discharge pressure• LPG flow• Motor current• Motor voltage• Vibration• Bearing temperature• Mechanical seal condition• Emergency stop• Low-suction trip• Dry-run protection• High-pressure protection• Interlocks• Local/remote operation

The pump shall demonstrate stable operation at the required operating capacity.

16. PERFORMANCE GUARANTEEThe Contractor shall guarantee that the supplied pump shall achieve:Minimum Capacity: 60 MT/hr.Maximum Required Capacity: 70 MT/hr.Differential Pressure: 8–10 bar(g)NPSHR: ?5 ft (1.52 m) at 60 MT/hr.NPSHA: 9 ft (2.74 m)The equipment shall operate without unacceptable:• Cavitation• Vibration• Noise• LPG leakage• Motor overload• Bearing overheating

Failure to meet the guaranteed performance shall require the Contractor to rectify the equipment at no additional cost to SLL.

**Number of GC Clause 37**

**Following is the guidance for Dispute Resolution**

(a) For Contracts to be entered with foreign Contractor/ Service Provider:

All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.

(b) For Contracts to be entered with nationals of Pakistan:

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard.

ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties.

iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration in accordance with GCC clause 38.

iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer’s fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration

making any party to the dispute liable to pay the costs of another party to the dispute.
v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Authority shall pay the Bidder any monies due to the Bidder.

**Rules of procedure for arbitration proceedings:**

Any dispute between the Authority and a Bidder who is a national of the Islamic Republic of Pakistan arising in connection with the present Contract shall be referred to adjudication or arbitration in accordance with the laws of the Islamic Republic of Pakistan including Arbitration Act 1940, however above provision shall prevail in referring the case to the Arbitrator.

**Place of Arbitration and Award:**

The arbitration shall be conducted in English language and place of arbitration shall be at Islamabad. The award of the arbitrator shall be final and shall be binding on the parties.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Bid Securing Declaration

# Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P173199***

Alternative No.: **[insert identification No if this is a Bid for an alternative]**

To: **SSGC-LPG Ltd. (SSGC-LPG Limited), Assistant Manager SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Signed: [insert signature of person whose name and capacity are shown] In the capacity of
[insert legal capacity of person signing the Bid Securing Declaration]

Name: [insert complete name of person signing the Bid Securing Declaration]

Duly authorized to sign the Bid for and on behalf of: [insert complete name of Bidder]

Dated on day of , [insert date of signing]
Corporate Seal (where appropriate)

# Contract Form

# *SECTION IX: CONTRACT FORMS*

THIS AGREEMENT made the _____ day of _____ 20_____ between **SSGC-LPG Ltd. (SSGC-LPG Limited), Assistant Manager SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package (*P173199*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

**NOW THIS CONTRACT WITNESSETH AS FOLLOWS:**

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Integrity Pact

Integrity Pact

# DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

**Contract** Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced 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 [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee 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 consultations fee or otherwise, with the object of obtaining or inducing the 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.

[Name of 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, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact 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 right 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, [Name of 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 time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of 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 form from GoP.

# Performance Guarantee Form

# Performance Guarantee Form

To: **SSGC-LPG Ltd. (SSGC-LPG Limited), Assistant Manager SSGC-LPG Building, Karachi Terminal, Opposite Saffari Park Main University Road, Gulshan e Iqbal karachi., Gulshan-e-Iqbal Sub-Division, Karachi East (District), Karachi (Division), Sindh (Province).**

WHEREAS *[name of Bidder]* (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods*(*hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

*[name of bank or financial institution]*

_____

*[address]*

_____

*[date}*

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Annexure

# Technical Proposal

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Proposal** (page number: 100)

# Financial Proposal

Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Financial Proposal** (page number: 125)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Procurement Forms

# Financial Resources

**Note: Cash in Hand/ Turnover/ Bank as per last Financial Statement.**

See Form Under Additional Forms and Documents: **Financial Resources** (page number: 128)

# Past Experience and Completed Contracts

| | |
|---|---|
| Experience in supplying LPG pump package | Supply of min. one LPG pump package. Client's completion certificate or similar document to be submitted |
| | |

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 129)

# Historical Contract Non-Performance, and Pending Litigation and Litigation History

| | |
|---|---|
| Presently the contractor is not blacklisted by any Govt. / Semi-Government / Private institution | Provide Affidavit for last 3 years |
| | |

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 130)

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
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# Additional Forms and Documents

**Ref. No**. SSGC /LPG/ 1480
**Date**: October-19, 2026

M/s. _____

_____

**Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal**
**Tender Enquiry # SSGC/LPG/SC/PT/1480**
**Under Single Stage Two Envelope Bidding Procedure**

## SECTION - I
## Invitation to Bid

SSGC LPG intends to carry out the work related to Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal (Under Single Stage Two Envelope Bidding Procedure) (On Complete Package Basis).

The Company invites you to submit Proposal in sealed envelopes **"Under Single Stage Two Envelope Bidding Procedure".**

***The priced bids shall be submitted along with FIXED Bid Bond Rs Rupees Nine Hundred Seventy-Five Thousand Only (975,000) in the form of Pay order / Demand Draft in favor of SSGC LPG Limited. No bid shall be entertained without bid bond / earnest money.***

The Company reserves the right to add, delete from or amend any part of these tender documents during the bidding period and bidders shall be informed accordingly.
Bids not conforming to the terms and conditions or a part thereof; stipulated in these tender documents may be rejected.
The Tender documents comprise the following:

| | |
|---|---|
| Section-I | Invitation to Bid |
| Section-II | **Technical Proposal** |
| Section-III | Introduction & Background |
| Section-IV | Technical Specification-LPG Pump-Motor Set |
| Section-V | Bidders Qualification Criteria |
| Section-VI | Documentation to be submitted with technical bid |
| Section-VII | Form "X" SSTW-05. |
| Section-VIII | **Financial Proposal** |
| | Scheduled of Requirement (BOQ) |

Application for technical and financial proposals will be received at:

On or before **14-12-2026** at **03:00 hrs.** The bids will be publicly opened at **03:30** hours on same day at the above address, in the presence of bidders and / or their authorized agents who may wish to attend.

Contract will be made on non-judicial stamp paper of value @ Rs 0.35 per hundred rupees of contract value, as per prevailing rate by Government of Sindh. The stamp duty will be borne by the contractor and also submit the copy of challan of stamp paper.

Tenders shall be enclosed in plain sealed envelope marked as:

"**STRICTLY CONFIDENTIAL**"
***Enquiry # SSGC/LPG/SC/PT/1480***

Yours faithfully,

**Manager (Finance & Procurement)**
**SSGC LPG**
**Head Office Karachi**

SSGC LPG LIMITED PROC

# TECHNICAL PROPOSAL

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS



SSGC|LPG

Section:III

Introduction & Background

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

## 1. Introduction & Background

SSGC LPG Limited (SLL) is located at Plot No NWZ/1/P-305 (A-4, LPG Area) North Western Industrial Zone, Port Qasim, Karachi. SLL is 100% owned subsidiary of Sui Southern Gas Company Limited, engaged in LPG marketing & distribution across the country. The Company owns and operates a dedicated open access LPG terminal with storage facility at PQ Terminal. There is a ship receiving jetty located about 3.5 km south of the terminal. The product is stored in above ground spherical tanks of 3x1500 MT & 2x1000 MT with a combined capacity of 6,500 MT.

SSGC LPG Limited (SLL), Port Qasim Terminal, intends to procure and install a new LPG Bowser Filling Pump Package for reliable and continuous transfer of LPG from the terminal storage system to road tankers/bowsers. The scope shall include design, engineering, supply, installation, testing, commissioning and performance demonstration of a complete LPG pump package, including all associated mechanical, electrical, instrumentation, control, safety and installation accessories required for safe and reliable operation.

The bidder shall be responsible for providing a complete and operational system on a turnkey basis, whether or not every individual component is specifically mentioned in this specification. The proposed pump shall be suitable for continuous-duty LPG service at SLL Port Qasim Terminal and shall be compatible with the existing LPG storage, piping and bowser filling facilities.

The scope shall be on a complete turnkey basis and shall include construction of the civil foundation, supply and installation of LPG suction and discharge piping for connection with the existing LPG network, electrical power cable and all associated electrical/control systems, including motor starter, Start/Stop controls, Emergency Stop, protection devices, earthing, hazardous-area accessories, safety interlocks, testing and commissioning. The Contractor shall provide all materials, equipment, fittings, accessories, labour and services necessary to make the new LPG bowser filling pump fully operational and safely integrated with the existing SLL system.

Farhan Khalid
QHSE Executive

Hamid Mehmood
Operations Executive

M. Atif Khan
ADM Operations

M. Tahir Hassan
DM Operations

Farrukh Anis
Mechanical Engineer

Abdul Hameed Gul
Head of Operations

TAHIR HASSAN
D.M. Operations
SSGC LPG Limited

SSGC LPG LIMITED PROC

Section:IV

TECHNICAL SPECIFICATION – LPG PUMP-MOTOR SET

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

| TECHNICAL SPECIFICATION – LPG PUMP-MOTOR SET | |
|---|---|
| Parameter | Minimum Technical Specification / Requirement. |
| Service | LPG transfer / road-bowser loading and filling. |
| Fluid | Commercial LPG – Propane & Butane mixture. |
| Pump Type | Horizontal, multistage centrifugal pump, specifically designed and suitable for LPG service. |
| Rated Capacity | 60–70 MT/hr. |
| Design Duty Point | Pump shall be capable of delivering minimum 60 MT/hr at the specified differential pressure and shall be capable of operating up to 70 MT/hr, subject to the manufacturer's certified performance curve. |
| Rated Differential Pressure | 8–10 bar(g). |
| Maximum Differential Pressure | ≥12 bar or as required to ensure the pump does not overload the motor under all specified operating conditions. |
| NPSH Available (NPSHA) | 9 ft (2.74 m) |
| Required NPSH (NPSHR) | ≤5 ft (1.52 m) at 60 MT/hr, based on manufacturer's certified performance curve. |
| NPSH Margin | Minimum 4 ft (1.22 m) between NPSHA and NPSHR at rated flow. |
| Pump Speed | 1500 RPM nominal, subject to manufacturer's final pump selection. |
| Suction Flange | Dia. 4-inch or Dia. 6-inch, Class 300, subject to final hydraulic design and existing piping. |
| Discharge Flange | Dia. 3-inch or Dia. 4-inch, Class 300, subject to final hydraulic design and existing piping |
| Shaft Sealing | API-type single, balanced, self-cooled/uncooled mechanical seal, specifically suitable for LPG service. |
| Pump Design Pressure | Minimum 20 bar(g) |
| Pump Design Temperature | Approximately −20°C to +60°C, or as required by the manufacturer's LPG service design |
| Relief / Bypass Protection | Integral or external bypass/relief arrangement suitable for the selected pump and system. For positive-displacement equipment, a pressure relief system shall be mandatory. For centrifugal pumps, overpressure protection shall be provided as required by the hydraulic/system design. |
| Motor Type | TEFC, squirrel-cage induction motor |
| Motor Duty | S1 – Continuous Duty |
| Motor Hazardous Area Protection | Flameproof / explosion-proof, suitable for the classified LPG hazardous area |
| Motor Rating | To be selected and guaranteed by the pump manufacturer based on the complete pump performance curve. |
| Motor Supply | 415 V, 3-phase, 50 Hz |
| Motor Efficiency | IE3 minimum |
| Motor Insulation | Class F minimum |
| Motor Temperature Rise | Class B temperature rise preferred |
| Motor Enclosure | IP66 minimum |
| Hazardous Area Certification | Suitable for the actual site classification and LPG service. ATEX/IECEx or equivalent internationally recognized certification acceptable, subject to SLL approval |
| Gas Group | IIC, where required by the site hazardous-area classification |
| Temperature Class | T4 or better, subject to site classification |
| Motor Certificate | Valid certificate for the complete motor/execution offered |
| Coupling | Flexible coupling suitable for rated motor power and speed, complete with robust non-sparking safety guard |
| Base Frame | Heavy-duty fabricated steel baseplate, machined and precision aligned. |
| Installation | Horizontal. |
| Area Classification | Equipment shall be suitable for the classified LPG hazardous area at SLL Port Qasim Terminal |
| Testing | Factory performance test, hydrostatic test, mechanical running test, vibration test and other applicable manufacturer's routine tests. |
| Documentation | GA drawing, certified pump performance curve, NPSH curve, pump datasheet, motor datasheet, hazardous-area certificates, material certificates, test reports, installation instructions and O&M manuals. |

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Section:IV
TECHNICAL SPECIFICATION – LPG PUMP-MOTOR SET
Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for
SLL Port Qasim Terminal
Under Single Stage Two Enveloped Bidding Procedure
Tender Enquiry # SSGC/LPG/SC/PT/1480

**1. DESIGN DUTY REQUIREMENTS**

The proposed LPG pump shall be designed for reliable and continuous transfer of commercial LPG from the terminal storage tanks to road tankers/bowsers. The pump shall meet the following minimum duty requirements:

- Capacity: 60–70 MT/hr
- Minimum guaranteed operating capacity: 60 MT/hr
- Maximum required operating capacity: 70 MT/hr
- Differential pressure: 8–10 bar(g)
- Maximum differential pressure: minimum 12 bar
- NPSH Available: 9 ft (2.74 m)
- Maximum permissible NPSHR: 5 ft (1.52 m) at 60 MT/hr
- LPG density: Bidder shall consider the applicable LPG composition; design basis approximately 0.51–0.57 kg/L
- Motor supply: 415 V, 3-phase, 50 Hz
- Motor duty: S1 continuous
- Motor efficiency: IE3 minimum
- Hazardous area: LPG classified area

The bidder shall verify the above duty conditions and shall submit hydraulic calculations demonstrating that the proposed pump is suitable for the actual SLL installation.

**2. PUMP PERFORMANCE CURVE**

The bidder shall submit a certified pump performance curve covering the complete operating range.

The curve shall show, as a minimum:

1. Capacity vs. differential pressure/head.
2. NPSHR vs. capacity.
3. Pump efficiency vs. capacity.
4. Power absorbed vs. capacity.
5. Recommended operating range.
6. Minimum continuous stable flow.
7. Shut-off head.
8. Maximum allowable operating point.

The curve shall clearly demonstrate operation at:

- 60 MT/hr.
- 65 MT/hr.
- 70 MT/hr.

at the specified differential pressure. The pump shall not operate outside the manufacturer's recommended operating range during normal operation.

**3. CRITICAL NPSH REQUIREMENT**

The pump shall be specifically selected for the low available suction head at the installation.

**Design Basis**

NPSHA = 9 ft (2.74 m)

The pump's certified NPSHR shall not exceed 5 ft (1.52 m) at 60 MT/hr.

Accordingly, the minimum NPSH margin shall be:

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NPSHA – NPSHR ≥ 4 ft (1.22 m)

The bidder shall submit a manufacturer's certified NPSH curve demonstrating compliance. The pump shall be capable of operating continuously at the specified duty without:

- Cavitation;
- Excessive vibration;
- Abnormal noise;
- Loss of capacity;
- Mechanical seal damage;
- Bearing damage.

The bidder shall specifically state the NPSHR at:

- 60 MT/hr.
- 65 MT/hr.
- 70 MT/hr.

NPSHR shall not be accepted solely on the basis of a general catalogue value. The value shall be supported by the manufacturer's certified performance data.

**4. LPG DENSITY / HYDRAULIC DESIGN BASIS**

For pump hydraulic calculations, the bidder shall consider the actual LPG composition handled at SLL. For preliminary selection, the following density range shall be considered:

0.51–0.57 kg/L (510–570 kg/m³)

The bidder shall clearly state the density used for:

- Pump selection
- Hydraulic calculations
- Power calculation
- NPSH calculation

The final pump shall remain suitable for the applicable LPG composition and density range.

**5. MOTOR SIZING & Soft Starter**

The motor shall be selected by the pump manufacturer based on the complete certified pump performance curve, rather than merely the nominal duty point. The motor shall have sufficient capacity to operate the pump without overloading.

**Motor sizing requirement**

The motor rated power shall provide a minimum 10–15% margin above the maximum absorbed pump power over the specified operating range. The bidder shall submit:

- Pump absorbed power curve;
- Motor rated power
- Motor efficiency
- Full-load current
- Power factor
- Starting current
- Motor service factor
- Maximum absorbed pump power
- Non-overloading requirement

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The pump/motor combination shall be non-overloading across the entire specified operating range, including:

- Minimum flow
- Rated flow
- Maximum flow
- Maximum differential pressure
- Maximum absorbed pump power

The motor shall not exceed its rated current or thermal limits during operation. Motor sizing shall therefore be based on the maximum power absorbed anywhere on the applicable pump curve, and not only on the 60 MT/hr. operating point.

**6. MOTOR HAZARDOUS AREA REQUIREMENT**

The motor shall be suitable for installation in the LPG hazardous area at SLL Port Qasim Terminal. The bidder shall provide a valid certificate showing the actual protection concept and hazardous-area suitability. The motor shall preferably comply with recognized international hazardous-area standards such as:

- IEC 60079 series
- ATEX 2014/34/EU
- IECEx
- or equivalent internationally recognized certification acceptable to SLL.

The certificate shall clearly identify:

- Equipment protection type
- Gas group
- Temperature class
- Equipment category/EPL
- Certificate number
- Certifying authority
- Applicable standard

**Important**

The bidder shall not simply state "ATEX Ex II 2G" without providing the complete certification marking. The final hazardous-area classification shall be verified against the actual classified area at SLL Port Qasim Terminal.

**7. MOTOR INSULATION AND TEMPERATURE RISE**

The motor shall have:

- Class F insulation minimum
- Class B temperature rise preferred
- S1 continuous-duty rating
- IE3 minimum efficiency
- IP66 enclosure

Class F insulation shall be considered a thermal insulation requirement and shall not be considered a substitute for hazardous-area certification.

**8. MECHANICAL SEAL**

The pump shall be provided with a single balanced mechanical seal suitable for LPG service.

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The mechanical seal shall be:

- LPG compatible
- Suitable for minimum 20 bar(g) design pressure
- Suitable for the specified temperature range
- Suitable for continuous operation
- Self-cooled/uncooled where permitted by the manufacturer's design

The bidder shall state the seal:

- Manufacturer
- Model
- Face materials
- Elastomer material
- Spring material
- Pressure rating
- Temperature rating
- Recommended replacement interval

The seal arrangement shall minimize LPG leakage and shall be suitable for hazardous-area service.

**9. DRY-RUN / LOW-SUCTION PROTECTION**

The pump shall be provided with a dedicated dry-run / low-suction protection system. The system shall prevent the pump from starting or continuing to operate when adequate suction conditions are not available.

The protection system shall be integrated with the pump start/trip logic. The bidder shall propose the most suitable method, such as:

- Low suction pressure switch/transmitter
- Low tank level interlock
- Minimum flow protection
- Combination of suction pressure and tank level protection

The protection shall provide a positive trip signal to stop the pump under unsafe suction conditions. The bidder shall submit the proposed Cause & Effect / Interlock Logic for SLL approval.

**10. OVERPRESSURE / BYPASS PROTECTION**

The pump system shall be protected against excessive discharge pressure. The bidder shall provide an appropriate relief/bypass arrangement (for example pressure regulating valve) based on the selected pump type and actual hydraulic system.

For a centrifugal pump, the bidder shall demonstrate that the pump shut-off head does not exceed the allowable pressure of the downstream system. Where required, a suitable relief/bypass valve shall be provided.

Any LPG bypass/relief flow shall be safely routed back to the appropriate LPG system and shall not be discharged directly to atmosphere.

**11. PUMP CASING AND PRESSURE CONTAINMENT**

The pump shall have a minimum design pressure of:
20 bar(g)

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All pressure-containing components shall be rated accordingly.
The bidder shall submit

- Design pressure
- Hydrostatic test pressure
- Maximum allowable working pressure;
- Design temperature
- Casing material
- Pressure rating of flanges

The pump pressure rating shall be compatible with the existing LPG piping system.

**12. CONNECTIONS**

Final connection sizes shall be confirmed through the bidder's hydraulic design and site survey.
Indicative requirements:

**Suction**

Dia. 4-inch or Dia. 6-inch, Class 300

**Discharge**

Dia. 3-inch or Dia. 4-inch, Class 300

The bidder shall verify the existing SLL piping arrangement before finalizing the pump connections. Any reducer, spool piece, flange, gasket, bolt, support or other component necessary for proper installation shall be included in the scope.

**13. COUPLING AND BASEPLATE**

The pump and motor shall be mounted on a heavy-duty fabricated steel baseplate.
The baseplate shall be:

- Rigid
- Properly machined
- Suitable for continuous-duty operation
- Suitable for precise pump/motor alignment
- Provided with suitable anchor points

A flexible coupling shall be provided where applicable. The coupling shall be provided with a suitable protective guard. Final alignment shall preferably be performed using laser alignment equipment or as approved by SLL, and the alignment report shall be submitted to SLL.

**14. FACTORY ACCEPTANCE TESTING**

Before dispatch, the complete pump shall undergo factory testing.
Minimum testing shall include:

**Pump**

- Hydrostatic pressure test
- Mechanical running test
- Performance test
- Capacity verification
- Differential pressure verification
- NPSH verification/data
- Vibration measurement

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- Noise measurement
- Mechanical seal inspection

**Motor**

- Routine electrical tests
- Insulation resistance
- Winding resistance
- No-load current
- Efficiency
- Power factor
- Temperature-rise verification, where applicable
- Hazardous-area certification verification

The FAT shall be conducted in accordance with the applicable manufacturer's standards and relevant international standards. SLL reserves the right to witness the FAT or appoint a Third-Party Inspection Agency.

**15. SITE TESTING AND COMMISSIONING**

After installation, the Contractor shall perform complete site commissioning.

- The following shall be verified:
- Correct pump rotation
- Pump/motor alignment
- Suction pressure
- Discharge pressure
- LPG flow
- Motor current
- Motor voltage
- Vibration
- Bearing temperature
- Mechanical seal condition
- Emergency stop
- Low-suction trip
- Dry-run protection
- High-pressure protection
- Interlocks
- Local/remote operation

The pump shall demonstrate stable operation at the required operating capacity.

**16. PERFORMANCE GUARANTEE**

The Contractor shall guarantee that the supplied pump shall achieve:
Minimum Capacity: 60 MT/hr.
Maximum Required Capacity: 70 MT/hr.
Differential Pressure: 8–10 bar(g)
NPSHR: ≤5 ft (1.52 m) at 60 MT/hr.
NPSHA: 9 ft (2.74 m)

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Section:IV

TECHNICAL SPECIFICATION – LPG PUMP-MOTOR SET

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

The equipment shall operate without unacceptable:

- Cavitation
- Vibration
- Noise
- LPG leakage
- Motor overload
- Bearing overheating

Failure to meet the guaranteed performance shall require the Contractor to rectify the equipment at no additional cost to SLL.

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Section: V

# BIDDER'S QUALIFICATION CRITERIA

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

| Bidder's Qualification Criteria-Supply, Installation and Commissioning of a New Bowser Filling Pump Package for SLL Port Qasim Terminal | | | | |
|---|---|---|---|---|
| **PART A** | | | | |
| **Sr. #** | **Parameter** | **Criterion** | **Requirement** | **Compliant (Y/N)** |
| 1 | Active FBR registration | Attach copy showing name/date from FBR website. | Mandatory | |
| 2 | Provincial Sales Tax registered | Attach copy showing name/date from Authority website. | Mandatory | |
| 3 | Endorse SLL complete tender document | Seal / sign all pages | Mandatory | |
| 4 | Site visit | Visit site to evaluate conditions, logistics & hardships. | Mandatory | |
| 5 | Not fulfilling commitments | Any past LOI/PO AO issued or ever been cancelled by SLL | Mandatory | |
| 6 | Presently the contractor is not blacklisted by any Govt. / Semi-Government / Private institution | Provide Affidavit for last 3 years | Mandatory | |
| 7 | Experience in supplying LPG pump package | Supply of min. one LPG pump package. Client's completion certificate or similar document to be submitted | Mandatory | |
| 8 | Bidder is registered with PEC | Provide color copy of the registration certificate | Mandatory | |

| **PART B** | | | | | |
|---|---|---|---|---|---|
| **BIDDERS MEETING MANDATORY CRITERION SHALL BE EVALUATED FURTHER AS BELOW:** | | | | | |
| **Sr. #** | **Parameter** | **Criterion** | **Min Points** | **Max Points** | **Bidder** |
| 9 | Experience in supplying LPG pump package | b) Supply of more than one LPG pump package. | 20 | 25 | |
| | | b) Supply of min. one LPG pump package. | | | |
| 10 | Local partner/ agent of LPG pump manufacturer | a) Local partner/ agent of LPG pump manufacturer from Western Europe, USA, Japan or Canada | 20 | 25 | |
| | | b) Local partner/ agent of LPG pump manufacturer other than Western Europe, USA, Japan or Canada | | | |
| 11 | Experience of supplying similar capacity LPG pump package | a) Experience of supplying equal to or more than 120 MT/Hr. capacity LPG pump package | 20 | 25 | |
| | | b) Experience of supplying equal to or more than 60 MT/Hr. capacity LPG pump package | | | |
| | | **Total:** | **60** | **75** | |

| **PART-C: Financial Criteria** | |
|---|---|
| Audited | 10 |
| Un-Audited | 0 |
| **Cash in Hand/ Turnover/ Bank as per last Financial Statement** | |
| Rs. 22 million | 15 |
| Rs. 20 million | 10 |

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Section V

# BIDDER'S QUALIFICATION CRITERIA

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

PART-C: Financial Criteria-Max. Marks 25. Min Marks 15

**IMPORTANT NOTES FOR BIDDER'S QUALIFICATION CRITERIA:**

1) Criterion 1 to 8 are Mandatory requirements.
2) Minimum marks (75) to be obtained in all above categories to pass Technical Qualification.
3) Bidders not scoring Minimum Marks (mentioned in each category) shall not qualify.
4) Bidders who have been disqualified by SLL in past or whose past awarded Contracts /LOI/WO/PO have ever been cancelled or withdrawn due to any reason shall not be evaluated.
5) Bidders to provide "viable documentary" evidence in support of their claim. Not providing same shall result in assigning minimum marks in that category.
6) Technical basis for "most advantageous Bidder" shall be higher marks scored.

**TECHNICAL BID SUBMISSION**

The technical bid shall include a completed compliance statement against every requirement of this specification. The bidder shall clearly state: "Comply / Deviate / Not Applicable" against each requirement. Any deviation shall be clearly identified and technically justified. Failure to disclose a deviation shall not relieve the Contractor from compliance with the tender requirements.

**ACCEPTANCE CRITERIA**

The equipment shall be accepted by SLL only after satisfactory completion of:

- Supply inspection.
- FAT.
- Site installation.
- Pre-commissioning.
- Commissioning.
- Performance testing.
- Demonstration of minimum 60 MT/hr capacity.
- Verification of safety interlocks.
- Verification of hazardous-area compliance.
- Submission of complete documentation.
- Training of SLL personnel.

**MINIMUM TECHNICAL DATA TO BE PROVIDED BY BIDDER**

| S. No. | Parameter | Bidder's Offer |
|---|---|---|
| 1 | Manufacturer | |
| 2 | Model | |
| 3 | Pump Type | |
| 4 | Rated Capacity | |
| 5 | Maximum Capacity | |
| 6 | Differential Pressure | |
| 7 | Suction Pressure | |
| 8 | Discharge Pressure | |
| 9 | NPSHA | |

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Section. V

## BIDDER'S QUALIFICATION CRITERIA

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

| | | |
|---|---|---|
| 10 | NPSHR at Rated Flow | |
| 11 | Pump Speed | |
| 12 | Pump Efficiency | |
| 13 | Motor Rating | |
| 14 | Motor Voltage | |
| 15 | Motor Frequency | |
| 16 | Motor Speed | |
| 17 | Motor Efficiency | |
| 18 | Motor Power Factor | |
| 19 | Insulation Class | |
| 20 | Hazardous Area Certification | |
| 21 | Gas Group | |
| 22 | Temperature Class | |
| 23 | Mechanical Seal Type | |
| 24 | Pump Casing Material | |
| 25 | Shaft Material | |
| 26 | Pump Weight | |
| 27 | Overall Dimensions | |
| 28 | Noise Level | |
| 29 | Vibration Level | |
| 30 | Warranty | |
| 31 | Country of Origin | |
| 32 | Manufacturer's Reference | |

**IMPORTANT TECHNICAL REQUIREMENT**

- The bidder shall not merely offer a pump having a nominal capacity of 60 MT/hr.
- The complete pump package shall be hydraulically checked against SLL's actual LPG system, including:
- Storage Tank → Suction Line → LPG Pump → Discharge Line → Bowser Filling System
- The bidder shall confirm that the proposed pump can reliably deliver minimum 60 MT/hr at the required discharge pressure while maintaining adequate NPSH margin.
- The supplier shall also confirm that the pump will not cause excessive pressure drop, cavitation or unacceptable operating conditions in the existing LPG system.

**TURNKEY RESPONSIBILITY**

- The successful Contractor shall be responsible for supplying a complete, safe and operational LPG Bowser Filling Pump system.

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- Any item necessary for safe and reliable operation but inadvertently omitted from the bidder's price shall be deemed included in the Contractor's scope where it is normally required for a complete installation.
- No additional payment shall be made for such items where they are necessary to achieve the specified performance and safe operation of the system.

**Civil Foundation**

- Construction of a suitable RCC foundation for the new pump-motor set.
- Foundation shall be designed to accommodate the pump, motor and base frame, including anchor bolts.
- Proper leveling, grouting and alignment provisions shall be provided.
- Existing foundation/site conditions shall be verified before execution.
- The contractor shall design, construct, and complete the required RCC civil foundations for the new LPG bowser filling pump package, including excavation, PCC/RCC works, reinforcement steel, formwork, anchor bolts, grouting, leveling, and finishing. The foundation shall be suitably designed to withstand the static and dynamic loads of the pump-motor package and shall be properly integrated with the existing floor/pavement level and drainage arrangement.
- All civil works shall be completed in accordance with the approved equipment foundation drawing and applicable engineering standards.

**LPG Suction and Discharge Piping**

- Supply, fabrication and installation of all required LPG suction and discharge piping to connect the new pump with the existing LPG piping network.
- Scope shall include all required pipe spools, flanges, gaskets, bolts, supports, reducers, valves and other fittings.
- Piping shall be suitable for LPG service and compatible with the existing piping pressure class.
- Final pipe sizes and routing shall be verified at site based on the pump manufacturer's requirements and existing network.
- All piping modifications shall be hydrostatically/pneumatically tested, as applicable and in accordance with approved safety procedures, before commissioning.
- Existing LPG system shall not be modified without prior approval of SLL.
- The contractor shall prepare a detailed and itemized Bill of Quantities (BOQ) for the pump suction and discharge piping spools, based on the approved piping isometric drawings.
- The BOQ shall include all required pipes, elbows, tees, reducers, flanges, gaskets, bolts/nuts, valves, strainers, supports, fittings, welding consumables, fabrication, NDT/testing, painting/coating, installation, and associated accessories.
- All materials shall be suitable for LPG service and shall comply with the approved piping material specification and applicable standards.
- The contractor shall be responsible for the complete fabrication, supply, installation, testing, and commissioning of the piping spools.

**Note: Details of welding, painting and sandblasting procedures is attached.**

**Electrical Power Supply**

- Supply and installation of appropriately sized electrical cable from the designated power source to the new pump motor.
- Cable sizing shall be based on motor rated current, starting method, voltage drop, installation conditions and applicable electrical standards.
- Supply and installation of suitable cable glands, lugs, termination kits, conduits, trays and other accessories.

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- Complete earthing and bonding of the motor, pump skid and associated metallic components shall be provided.

**Motor Starting and Control System**

- Provision of a suitable motor starter/control arrangement for the new pump.
- The system shall include:
- Start/Stop facility;
- Local/Remote selector, where required;
- Emergency Stop;
- Motor overload protection;
- Short-circuit protection;
- Phase failure/reversal protection;
- Under/over-voltage protection, where applicable;
- Running indication;
- Trip/fault indication.
- The starting method shall be selected considering the motor rating and existing electrical system.

**Soft Starter:**

- The electric motor shall be provided with a suitable electronic soft starter for controlled starting of the LPG pump.
- Soft starter shall be properly sized and rated for the motor's full-load current and starting duty.
- The soft starter shall provide adjustable voltage/current ramp-up to ensure smooth acceleration of the pump and minimize starting current and mechanical/electrical stresses.
- Soft starter shall include, as a minimum, overload protection, phase-loss protection, over/under-voltage protection, and motor thermal protection.
- The soft starter shall be housed in a suitable IP-rated electrical panel/enclosure and shall be suitable for the applicable hazardous/non-hazardous area installation requirements.
- The system shall include suitable bypass contactor arrangement, where applicable, to allow the motor to operate on full voltage after starting and reduce losses during normal operation.
- Necessary start/stop controls, indication, interlocking, emergency stop and interface with the existing control system shall be provided.
- Complete supply, installation, cabling, termination, testing and commissioning of the soft starter shall be included in the contractor's scope.

The LPG pump motor shall be started through a suitably rated electronic Soft Starter. The Soft Starter shall be selected based on the motor's rated current and starting characteristics and shall provide controlled acceleration, reduced starting current and protection against electrical and motor-related faults. Complete Soft Starter panel, bypass arrangement, protection, control, indication, cabling, installation, testing and commissioning shall be included in the scope of supply.

**Safety Interlocks**

The new pump shall be integrated with the required safety interlocks, including low suction pressure/dry-run protection.
Pump shutdown shall be initiated automatically under unsafe operating conditions.
Emergency shutdown functionality shall be provided in accordance with the existing LPG terminal safety system.

**Hazardous Area Requirements**

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Section IV

BIDDER'S QUALIFICATION CRITERIA

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All electrical equipment, junction boxes, cable glands, switches and other equipment installed within the classified LPG area shall be suitable for the applicable hazardous-area classification.
The Contractor shall provide valid hazardous-area certificates for applicable equipment.

**Isometric and P&I Drawings**

The contractor shall prepare and submit detailed Piping Isometric and Piping & Instrumentation (P&I) Drawings for the new LPG bowser filling pump installation.
The drawings shall clearly indicate the pump suction and discharge piping, valves, fittings, strainers, instruments, pressure gauges, safety devices, drains/vents, tie-in points with the existing LPG piping network, pipe sizes, specifications, flow direction, and relevant equipment identification numbers.
Drawings shall be submitted for SLL review and approval prior to commencement of fabrication and installation.

**Testing and Commissioning**

Complete testing of civil, mechanical, piping and electrical installations shall be carried out before commissioning.
Pump rotation, motor insulation, cable continuity, earthing, protection settings, interlocks and emergency shutdown shall be verified.
The contractor shall commission the complete pump system and demonstrate the required 60–70 MT/hr. LPG filling capacity under the specified operating conditions.

**FINAL DELIVERABLE**

The final installation shall be handed over to SLL as a fully operational LPG Bowser Filling Pump Package, tested and commissioned, with all required documentation, certificates, drawings, spare parts, training and performance guarantees. The Contractor/ bidder shall remain responsible for rectification of any defects identified during commissioning and the warranty period.

**Welding Procedure & Standard (WPS & WPQ)**

Welders to be employed by the Bidder may undergo a test as per ASME SEC IX and ASME/ANSI B16.3; welders declared qualified by the Company Site Representatives can only be employed on the job. Welding of joints will be carried out by SMAW procedures. All welding works to be done with E7018 welding electrode with mobile or DC welding machine. Root joint to be welded with 6010/E7018 or as advised by SLL electrode and with argon welding method. The welding electrodes should be preheated as per standard in oven. Cost of welder's qualification, through OGRA approved hired TPIA or as advised by SLL Site Representative, to be borne by the Bidder. 100% radiography of all weld joints is in bidder's scope.

**Sandblasting Procedure**

Sandblasting complete setup to be used along with hopper, hose pipes, relief valve must have a valid fitness certificate approved from reputable inspection agency.
Sandblasting operator shall wear special coverall, eye and face protection, shoes and gauntlet gloves for the protection of re-bounding abrasives. Positive pressure respirator helmet shall be used.
Earthing of sandblast pot and nozzle shall be done.
The sandblast pot must be provided with automatic safety shut down valve.
The sandblasting pot must have safety relief valve.
The breathing air should be supplied from screw type or oil free compressor or BOC synthetic air cylinders. In case oil lubricated compressor is to be used then it must be equipped with calibrated carbon mono oxide detection unit.
Sandblasting nozzles shall be equipped with dead man switch.

**Piping Cleaning Procedure**

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Section-V

## BIDDER'S QUALIFICATION CRITERIA

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for
SLL Port Qasim Terminal
Under Single Stage Two Enveloped Bidding Procedure
Tender Enquiry # SSGC/LPG/SC/PT/1480

All piping spools as well as completed piping shall be thoroughly cleaned by blowing high pressure air through the spools leaving no welding leftover, dust or other unwanted material in the piping before connecting on locations. Piping top steel surfaces to be free of oil, grease, dirt, dust, mill scale, rust and paint.

**Painting Procedure**

- Apply paint when the surface is completely dry & to be witnessed by SLL Site Engineer/ representative.
- Soon after sandblasting, apply two coats of Zinc rich epoxy primer paint (60% sold content) on the pipeline, pipe supports and associated steel structure.
- Apply two coats of high build epoxy intermediate paint (surface tolerant paint, 80 to 90% solid content)
- Apply finish two coats of Polyurethane paint (solid content 60%), white color.
- Apply color code (different colors of piping & structure) as per SLL prevailing color scheme.
- Overall thickness of the applied paint should be over 300 microns. Bidder to arrange calibrated paint thickness meter to determine paint thickness.
- Piping color code to be followed for different services as per SLL engineer instruction before paint.
- Hand brush/ roller paint shall be acceptable.
- Calibrated paint thickness meter is to be provided by the Bidder & used to verify paint thickness.
- All underground piping to be double wrapped; before wrapping and soon after sandblasting, apply two coats of zinc rich epoxy primer paint followed equal number coats of high build epoxy intermediate paint.

**Note: Sandblasting and welding works to be carried out in the designated area, outside the LPG tank area, as advised by SLL**

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Section:VI

DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID

The bidder shall submit:

1. Manufacturer and model.
2. Pump datasheet.
3. Certified pump performance curve.
4. NPSH curve.
5. Power consumption curve.
6. Efficiency curve.
7. GA drawing.
8. Pump sectional drawing.
9. Foundation/baseplate drawing.
10. Motor datasheet.
11. Motor performance data.
12. Hazardous-area certificate.
13. Mechanical seal datasheet.
14. Coupling details.
15. Material specifications.
16. Hydrostatic test procedure.
17. FAT procedure.
18. Installation requirements.
19. Recommended spare-parts list.
20. O&M requirements.
21. Previous relevant installation references.
22. Complete technical compliance statement.

BIDDER TECHNICAL COMPLIANCE

The bidder shall provide a detailed compliance statement against every requirement of this specification.
Each item shall be marked:

COMPLY / DEVIATION / NOT APPLICABLE

Any deviation shall be clearly identified and technically justified.
Silence or failure to identify a deviation shall not be considered acceptance of a deviation.

RECOMMENDED SPARES

The bidder shall submit a separate price schedule for recommended commissioning and two-year operational spare parts, including as applicable:

- Mechanical seal
- Bearings
- O-rings
- Gaskets
- Coupling element
- Wear rings
- Seal components
- Instrument spares
- Motor bearings
- Other critical pump components

KEY TECHNICAL REQUIREMENTS-MANDATORY

The following shall be considered mandatory technical requirements:

1. Pump shall be specifically suitable for LPG service.

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2. Horizontal multistage centrifugal pump.
3. Minimum capacity: 60 MT/hr.
4. Required operating range: 60–70 MT/hr.
5. Differential pressure: 8–10 bar(g).
6. Maximum differential pressure: ≥12 bar.
7. NPSHA: 9 ft (2.74 m).
8. NPSHR: ≤5 ft (1.52 m) at 60 MT/hr.
9. Minimum NPSH margin: 4 ft (1.22 m).
10. Pump design pressure: minimum 20 bar(g).
11. Motor: 415 V, 3-phase, 50 Hz.
12. Motor: S1 continuous duty.
13. Motor efficiency: IE3 minimum.
14. Motor insulation: Class F minimum.
15. Motor enclosure: IP66 minimum.
16. Motor shall be certified for the applicable LPG hazardous area.
17. Motor shall be non-overloading throughout the specified operating range.
18. Dry-run/low-suction protection shall be provided.
19. Complete pump performance and NPSH curves shall be submitted.
20. Factory performance and mechanical tests shall be conducted.
21. Site performance test shall demonstrate the specified duty.
22. Complete hazardous-area certificates shall be submitted.
23. Pump shall be suitable for continuous operation at SLL Port Qasim Terminal.
24. All equipment shall be suitable for the existing LPG system and site conditions.

IMPORTANT BIDDER CONFIRMATION

The bidder shall provide the following explicit statement in the technical offer: "We confirm that the proposed LPG pump-motor set has been selected based on the specified operating conditions of 60–70 MT/hr capacity, 8–10 bar(g) differential pressure and NPSHA of 9 ft (2.74 m). We further confirm that the pump NPSHR at 60 MT/hr. shall not exceed 5 ft (1.52 m), and that the selected motor is adequately sized and shall not overload anywhere over the specified pump operating range, including maximum absorbed power conditions."

FINAL TECHNICAL NOTE

The final pump selection shall be based on the actual hydraulic conditions of the SLL Port Qasim Terminal, including suction pressure, discharge pressure, static head, pipe friction losses, LPG density/composition and available NPSH.

The bidder shall not finalize the pump solely on the basis of the nominal capacity. The successful bidder shall verify the complete system during the site survey and shall be responsible for supplying a pump-motor set capable of safely and reliably achieving the specified bowser filling duty.

STRAINER / FILTER

A suitable LPG-compatible suction strainer shall be provided where required by the pump manufacturer. The strainer shall be sized so that pressure drop is minimized and adequate NPSH is maintained.

The bidder shall state:

- Mesh size.
- Filtration area.
- Pressure rating.
- Material.
- Pressure drop at rated flow.

The arrangement shall permit safe cleaning and maintenance.

VALVES

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All valves associated with the pump package shall be suitable for LPG service and shall have appropriate pressure and temperature ratings. The following shall be provided as required:

- Suction isolation valve.
- Discharge isolation valve.
- Check valve.
- Bypass valve.
- Relief valve.
- Drain valve.
- Vent valve.

Valve material and pressure class shall be stated.

EARTHING AND BONDING

The complete pump skid, motor, piping and associated metallic components shall be properly electrically bonded and connected to the existing plant earthing system. The Contractor shall provide all necessary:

- Earth lugs
- Bonding jumpers
- Earthing conductors
- Connection hardware

The earthing arrangement shall be tested and documented during commissioning.

PAINTING / CORROSION PROTECTION

All external carbon-steel surfaces shall be properly prepared and coated with a suitable industrial coating system for the Port Qasim environment. The coating system shall be suitable for:

- Marine atmosphere
- Humidity
- LPG terminal environment
- Outdoor installation

The bidder shall provide the proposed coating specification.

SITE INSTALLATION

The Contractor shall be responsible for complete installation of the supplied pump package.

Installation shall include:

- Removal of existing equipment where specified.
- Positioning of new pump.
- Foundation preparation/modification, if required.
- Pump/motor installation.
- Alignment.
- Piping connections.
- Valve installation.
- Electrical connections.
- Instrumentation.
- Earthing.
- Control wiring.
- SCADA/control system interface.
- Painting/touch-up.
- Testing.

All installation work shall be carried out by qualified and experienced personnel.

PRE-COMMISSIONING

The Contractor shall conduct complete pre-commissioning checks, including:

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- Mechanical inspection.
- Piping inspection.
- Flange inspection.
- Valve operation.
- Bolt tightening.
- Pump rotation check.
- Motor insulation resistance test.
- Cable continuity test.
- Earthing test.
- Instrument calibration.
- Control logic verification.
- Emergency shutdown verification.
- Interlock verification.
- Lubrication check.
- Seal inspection.

COMMISSIONING AND PERFORMANCE TEST

The Contractor shall commission the pump in the presence of SLL representatives. The performance test shall demonstrate that the pump can achieve the specified operating capacity under actual site conditions. The minimum demonstrated capacity shall be: 60 MT/hr LPG.

The Contractor shall record:

- LPG flow rate.
- Suction pressure.
- Discharge pressure.
- Differential pressure.
- Motor current.
- Motor voltage.
- Pump speed.
- Vibration.
- Bearing temperature.
- Seal condition.
- Operating duration.

The pump shall operate smoothly without abnormal vibration, noise, overheating or LPG leakage.

PERFORMANCE GUARANTEE

The bidder shall guarantee:

1. Minimum rated capacity of 60 MT/hr.
2. Suitable NPSH performance.
3. Pump efficiency.
4. Motor power consumption.
5. Mechanical integrity.
6. No unacceptable LPG leakage.
7. Vibration within manufacturer's/API applicable limits.
8. Reliable continuous-duty operation.

Failure to achieve the guaranteed performance shall require the bidder to rectify or replace the equipment at no additional cost to SLL.

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VIBRATION AND NOISE

Pump vibration shall be measured during commissioning. The measured vibration shall be within the manufacturer's specified limits and applicable international standards. The bidder shall provide the allowable vibration limits with the technical offer. Abnormal noise, vibration or resonance shall be considered unacceptable.

SPARE PARTS

The supplier/ bidder shall quote separately for recommended commissioning and two-year operational spare parts. The recommended spare parts shall include, as applicable:

- Mechanical seal.
- O-rings.
- Gaskets.
- Bearings.
- Wear rings.
- Coupling elements.
- Pump shaft components.
- Relief valve spares.
- Motor bearings.
- Instrument spares.
- Other critical consumables.

A complete spare-parts list with part numbers and quantities shall be submitted.

SPECIAL TOOLS

All special tools required for operation and maintenance of the pump shall be identified and quoted separately. Where manufacturer-specific special tools are required, these shall be included in the supply unless otherwise agreed by SLL.

DOCUMENTATION

The Contractor shall provide complete technical documentation, including:

Before Supply

- Technical datasheet.
- Pump performance curve.
- NPSH curve.
- GA drawing.
- Foundation drawing.
- Piping connection details.
- Motor datasheet.
- Hazardous-area certificates.
- Material specifications.
- Seal datasheet.
- Electrical drawings.
- Control philosophy.
- Cause & Effect Matrix.
- Installation requirements.

After Supply

- As-built drawings.
- Operation & Maintenance Manual.
- Spare parts list.
- Recommended maintenance schedule.
- Test certificates.

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- FAT report.
- Hydrostatic test certificate.
- Material certificates.
- Calibration certificates.
- Motor test certificate.
- Hazardous-area certificates.
- Site commissioning report.
- Performance test report.

All documents shall be provided in English.

TRAINING

The Contractor shall provide operational and maintenance training to SLL personnel.

Training shall cover:

- Pump operation.
- Start-up/shutdown procedure.
- Emergency shutdown.
- Routine inspection.
- Mechanical seal monitoring.
- Lubrication.
- Troubleshooting.
- Preventive maintenance.
- Spare-parts replacement.
- Safety precautions.

Training shall be conducted at SLL Port Qasim Terminal after commissioning.

SAFETY REQUIREMENTS

All work shall be carried out in accordance with SLL safety requirements and applicable statutory regulations. The Contractor/ bidder shall comply with:

- Permit-to-work system.
- Gas testing requirements.
- Hot-work restrictions.
- Electrical safety requirements.
- Lock-out/tag-out requirements.
- PPE requirements.
- LPG safety procedures.
- Emergency response requirements.

No hot work or modification in the LPG system shall be undertaken without written approval from SLL.

HAZARDOUS AREA COMPLIANCE

All electrical and instrumentation equipment installed within classified hazardous areas shall be certified for the applicable hazardous-area classification. The bidder shall submit valid certificates from recognized certification bodies. Certificates shall clearly identify the applicable:

- Zone/Class
- Gas group
- Temperature class
- Equipment protection level/category
- Certification standard

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Section:VI

DOCUMENTATION TO BE SUBMITTED WITH TECHNICAL BID

Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal

Under Single Stage Two Enveloped Bidding Procedure

Tender Enquiry # SSGC/LPG/SC/PT/1480

SLL reserves the right to reject any equipment for which hazardous-area certification is incomplete, invalid or not applicable to the installation area.

CODES AND STANDARDS

The equipment shall comply with the latest applicable editions of recognized international standards, including, where applicable:

- ASME B16.5 – Pipe flanges and flanged fittings.
- ASME B31.3 – Process Piping.
- NFPA 58 – Liquefied Petroleum Gas Code, where applicable.
- Applicable local statutory and regulatory requirements.
- SLL engineering and safety standards.

SITE SURVEY

Before finalizing the pump selection, the successful bidder shall conduct a detailed site survey.
The survey shall verify:

- Existing pump arrangement.
- Pump foundation.
- Existing suction piping.
- Existing discharge piping.
- Pipe sizes.
- Flange ratings.
- Suction pressure.
- Discharge pressure.
- Static head.
- NPSHA.
- Electrical supply.
- Hazardous-area classification.
- Existing control system.
- Available space.
- Access for maintenance.
- Existing bowser filling arrangement.

The Contractor/ bidder shall be responsible for ensuring that the supplied equipment is physically and technically compatible with the existing installation.

WARRANTY

The complete pump-motor package shall have a minimum warranty of:
12 months from commissioning or 18 months from delivery, whichever occurs earlier. A longer warranty period offered by the bidder shall be considered favorably.

- The warranty shall cover defects in:
- Pump
- Motor
- Mechanical seal
- Bearings
- Coupling
- Baseplate
- Instruments
- Electrical/control equipment supplied under the contract
- Workmanship

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# FINANCIAL PROPOSAL

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**Section:VIII**

**Scheduled of Requirement (BOQ)**

**Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal**

**Under Single Stage Two Enveloped Bidding Procedure**

| S. No. | Description | Quoted Amount-PKR |
|---|---|---|
| 1 | Supply of LPG Pump-Electric Motor Set complete with Base frame/skid, Coupling and coupling guard, Mechanical seal etc. | |
| 2 | Construction and modification of the pump-motor set Civil Foundation | |
| 3 | Installation, testing and commissioning of LPG Pump-Electric Motor Set | |
| 4 | Supply of pipes, fittings, valves, Relief/bypass system for pump's suction and discharge system. | |
| 5 | Construction and modification of suction and discharge piping according to the site conditions and with respect to the proposed pump-motor set. | |
| 6 | Supply, installation, testing and commissioning of Instrumentation and Control system. | |
| 7 | Supply, installation, testing and commissioning of associated Electrical equipment. | |
| 8 | Supply, installation, testing and commissioning of Control panel/interface. | |
| 9 | Supply, installation, testing and commissioning of soft starter for the LPG pump's motor | |
| 10 | To provide Safety Interlocks | |
| 11 | Recommended two years and commissioning spare parts | |
| 12 | FAT. | |
| 13 | Training of SLL operations team at SLL Port Qasim Terminal. | |
| 14 | Special tools, if any. | |
| 15 | Any other additional required item or services, which did not mention above. | |
| 16 | Final testing, commissioning and satisfactory hand over of the entire New LPG Bowser Filling Pump Package to SLL operations team at SLL Port Qasim Terminal. | |
| | | |

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**Section:VIII**

**Scheduled of Requirement (BOQ)**

**Supply, Installation and Commissioning of a New LPG Bowser Filling Pump Package for SLL Port Qasim Terminal**

**Under Single Stage Two Enveloped Bidding Procedure**

**Note:**

- **Mode of Payment:** Payment shall be made upon successful completion of the work in all respects, subject to the work being executed at the site and duly inspected and certified by SLL.

- **Utilities:** All utilities required for the execution of the work, including compressed air, el, diesel, all consumables etc., shall be arranged and provided by the Contractor at its own cost. Electricity and water will be provided by SLL.

- **Submission of Bid:** Bidders are required to quote their rates strictly on the prescribed Bid Form. Rates quoted on any other document or format shall not be entertained.

- **Completion Period: 34 weeks** The work shall be completed (including the supply of imported items) within the period specified in the Bid Form (BOQ), commencing from the date of issuance of the Work Order or as otherwise stipulated by SLL.

**Signature & Stamp:-**_____

**Person Name:-**_____

**Company's Name:-**_____

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# Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

| | | |
|---|---|---|
| **No.** | **Source of financing** | **Amount (Eq. PKR)** |
| 1 | | |
| 2 | | |
| 3 | | |
| | | |

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Past Experience / Contracts

| Contracts over *[insert amount]* during the last three years: | | | | |
|---|---|---|---|---|
| Procuring Agency | Value | Year | Goods/Services Supplied | Country of Destination |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

# Historical Contract Non-Performance, and Pending Litigation and Litigation History

*[The following table shall be filled in for the Applicant and for each member of a Joint Venture]*

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

| | | | |
|---|---|---|---|
| ☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance | | | |
| **Year** | **Non-performed portion of contract** | **Contract Identification** | **Total Contract Amount (current value, currency, exchange rate and PKR equivalent)** |
| *[insert year]* | *[insert amount and percentage]* | Contract Identification: *[indicate complete contract name/ number, and any other identification]*<br>Name of Procuring Agency: *[insert full name]*<br>Address of Procuring Agency: *[insert street/city/country]*<br>Reason(s) for nonperformance: *[indicate main reason(s)]* | *[insert amount]* |
| Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements | | | |
| ☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below. | | | |

| **Year of dispute** | **Amount in dispute (currency)** | **Contract Identification** | **Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)** |
|---|---|---|---|

| | | | |
|---|---|---|---|
| *[insert year]* | *[insert amount]* | Contract Identification: [indicate complete contract name, number, and any other identification]<br>Name of Procuring Agency: *[insert full name]*<br>Address of Procuring Agency: *[insert street/city/country]*<br>Matter in dispute: *[indicate main issues in dispute]*<br>Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]*<br>Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]* | *[insert amount]* |

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

| **Year of award** | **Outcome as percentage of Net Worth** | **Contract Identification** | **Total Contract Amount (currency), PKR Equivalent (exchange rate)** |
|---|---|---|---|
| *[insert year]* | *[insert percentage]* | Contract Identification: [indicate complete contract name, number, and any other identification]<br>Name of Procuring Agency: *[insert full name]*<br>Address of Procuring Agency: *[insert street/city/country]*<br>Matter in dispute: *[indicate main issues in dispute]*<br>Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]*<br>Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]* | *[insert amount]* |