

**TENDER DOCUMENT
FOR
SELECTION OF CONSULTANT FOR
SHIFTING 100 TPD CAUSTIC
CHLOR PLANT ON TURNKEY
BASIS**



**PUNJAB ALKALIES & CHEMICALS
LIMITED**

SCO 125-127, SECTOR 17-B,

CHANDIGARH-160 017

Email: mpsrana@punjabalkalies.com

DISCLAIMER

1. This Tender document is not an agreement or offer by the Punjab Alkalies & Chemicals Limited to the prospective Bidders or any other party. The purpose of this Tender document is to provide interested parties with information to assist in the formulation of their Bid.
2. While this Tender document has been prepared in good faith, neither the Punjab Alkalies & Chemicals Limited nor its employees make any representation or warranty express or implied as to the accuracy, reliability or completeness of the information contained in this Tender document.
3. Neither the Punjab Alkalies & Chemicals Limited, its employees will have any liability to any Bidder nor any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this Tender document, any matter deemed to form part of this Tender document, the information supplied by or on behalf of Procurer/ Authorized Representative or its employees, or otherwise arising in any way from the selection process for the said supply of power.

1.1 INTRODUCTION

PUNJAB ALKALIES & CHEMICALS LIMITED ("PACL" or "the Company") is a Public Limited Company formed under the Companies Act, 1956. It was promoted by the Punjab State Industrial Development Corporation Limited (PSIDC), a wholly owned Punjab Government Company. The Company's registered office is located at Chandigarh.

PACL is one of the largest manufacturers of Caustic Soda (NaOH) in the Northern part of India with an installed capacity of 99000 Tons Per Annum (TPA). The Company is engaged in the manufacture and sale of Caustic Soda Lye, Liquid Chlorine, Hydrochloric Acid, Sodium Hypochlorite and Hydrogen Gas. The Company's plant is located at Naya Nangal, District Ropar, Punjab.

PACL has two manufacturing units viz. Unit-I & II, both located at Nangal-Una Road, Naya Nangal, District, Ropar, Punjab. Both the Units are engaged in manufacturing of Caustic Soda, Liquid Chlorine, Hydrochloric Acid and other products such as Sodium Hypochlorite and Hydrogen. Unit-I & II have a capacity of 100 TPD and 200 TPD respectively.

Job Description

PACL has decided to shift its 100 TPD Caustic Soda and Chlorine Plant (Unit-1) from existing location to a suitable location along side the already running similar equipments/ machines in 200 TPD Caustic Soda Chlorine plant (Unit-II), in order to have the combined capacity of 300 TPD or more after installation and commissioning.

To undertake above Job, PACL has decided to hire the services of a consultant/expert, who should carry out the detailed study of shifting the PACL's 100 TPD Caustic Soda and Chlorine Plant (Unit-1) from existing location to a suitable location alongside the already running similar equipments/ machines in 200 TPD Caustic Soda Chlorine plant (Unit-II) and submit a feasibility report thereof.

The feasibility report should include:

The study of the existing General arrangement & layout of Unit – II equipment, vessels, piping & machines and propose suitable layout / plot plan in Unit – II to accommodate / re-locate corresponding similar equipments of unit – I after dismantling & shifting on new civil foundations, to be prepared at their nearby location so that same suction / discharge pipes, other piping & valves etc could be re-used.

Estimate of expenditure to be incurred on subject shifting of PACL's

100 TPD Caustic Soda and Chlorine Plant (Unit-1) as per '**Job description**' above from existing location to alongside the 200 TPD Caustic Soda & Chlorine plant (Unit-II) with detailed '**Scope of Work**', **Para 1.2, PART 'A' & PART 'B' as indicated hereunder.**

PACL reserves the right to accept any bid or reject any or all bids or cancel/withdraw "Tender Notice" at any time without assigning any reason for such decision. Such decision by PACL shall not be subject to question by any bidder and PACL shall not bear any liability of any kind whatsoever, consequent upon such a decision.

All the costs and expenses incurred by the bidder for preparation of the proposal, discussions and conferences if any, including pre-award discussions, technical and other presentation in the PACL's office, etc. shall be to the account of the Bidders and PACL shall not bear any liability whatsoever of such costs and expenses.

1.2 SCOPE OF WORK:

Broad activities to be covered shall be as below:

PART 'A'

1. Consultant/ expert meeting the qualifying requirement and having similar experience to carry out subject feasibility study shall visit PACL site before submitting their technical offer for actual assessment of the job.
2. Consultant / expert shall study the existing piping / equipment layout plan with GA drawings of equipments/ pumps/ piping (of unit - I) and accordingly Identify / propose a suitable layout / plot plan in Unit - II, (preferably on true replica of Unit - I layout, basis) alongside the existing location of similar equipments/ pumps/ piping layout of Unit-II, (Brine section/ Chlorine Section/ Hydrogen section).
3. Consultant / expert shall study the adequacy / strength of existing pipe - racks and propose additional strengthening / modification/ extension of the same, if required, to accommodate extra piping load due to additional piping after shifting.
4. Consultant/ expert shall study the installed capacities of existing utilities vis - a - viz plant requirement (Instrument Air, Unloading Air, Chilled Water, Process Water, N2 Unit, DM Water etc) and propose / recommend capacity enhancement wherever required for combined Caustic Chlorine capacity of 300 TPD and above.

5. Consultant / expert have to keep in mind that both the units are having DCS based / controlled operation. After shifting & resultant enhanced capacity @ 300 TPD or more, the operational control shall continue to be from existing control room in Unit-II. Additional control requirements, if any, are to be housed / accommodated within the same.
6. Consultant/ expert to supervise the total work of shifting and commissioning of the plant thereafter.

PART 'B'

1. **Execution at site:** The consultant shall execute the job at site on TURNKEY basis through the suitable contractors for a) Civil work, b) Equipment erection and c) Fabrication & erection of Piping of various MOCs as indicated hereunder. The contractors for execution of these jobs shall be appointed / finalized by them. The job involved shall be:
 - a) Prepare drawings / details with BOM of suitable civil foundation and prepare suitable civil foundations for re-location of above equipments at location as identified / propose by them – (ref Para 1.2 – PART A, Sr No 2) above).
 - b) Dismantling of cell house Electrolysers, complete plant equipments/ tanks/ pumps/ compressors/ blowers/ piping – FRP, PP-FRP, MSRL, MS, SS etc. / pipe racks support / valves /other piping items from existing foundation in Unit-I.
 - c) Shifting of above items for re-location and erection on new civil foundations as per proposed location in Unit-II. All care to be taken to ensure that there is no damage of pumps, piping / equipments during shifting as the same are to be installed as such, to the extent possible without cutting / welding.
 - d) Installation of above items on new civil foundations prepared for this purpose in unit - II. Fabrication and erection of Piping of various MOCs i.e. FRP, PP / PVC – FRP, CS, SS Ni, IBR etc. Modification of piping to achieve flexibility in operation for enhanced capacity after above shifting with minimum standby equipments but continuous operation of the plant at full capacity.
 - e) Commissioning of the plant to ensure combined enhanced capacity of minimum 300 TPD and establish the auxiliary power consumption for the same (on PMT CSL basis) at as low as practically achievable.

1.3 QUALIFYING REQUIREMENT OF BIDDERS

The consultant should have minimum five years experience of having under-taken similar jobs on his own. While mentioning the experience, consultant should mention the core activities undertaken by them like preparation of pre-feasibility report, project management, detailed design and engineering etc. The consultant should also submit that he has adequate capability and capacity to perform work properly and expeditiously within the time period specified. The consultant should mention total manpower strength & provide organizational chart mentioning key persons involved for such activities. The consultant should also submit the list of clients along with brief scope of work under-taken by them during last three years. Turnover of consultation work must also be specified.

However, PACL reserves the right to ask for any additional information and also reserves the right to reject the proposal of any bidder, if in the opinion of PACL, the qualification data provided by the bidder is not complete / satisfying or the bidder is not qualified.

Notwithstanding anything stated above, PACL reserves the right to assess bidder's capability and capacity to perform the work and may relax the qualifying requirement in overall interest of PACL.

All this information should be in part - I of the bid. Incomplete information shall not be accepted.

1.4 TIME FOR COMPLETION:

Consultant shall complete the total scope of work within sixty days (60) days from the date of issue of work order.

1.5 TERMS OF PAYMENT:

Part 'A'

10% Advance: against ABG.

60%: on submission of draft report. PACL shall forward their comments within two (2) weeks submitting draft report. Consultant shall have to incorporate or take action on the given suggestions.

30%: on submission of final report and after evaluation of PACL within four (4) weeks.

Part 'B'

Prorata payment will be released as per completion of jobs subject to maximum of 80%.

Balance on completion of job.

1.6 BID DOCUMENTS & SUBMISSION OF BIDS:

Bids shall be received at PACL, Chandigarh Office in the following manner:

The bid shall be submitted in two parts in two separate sealed Envelopes named as below:

Envelope-1: Shall contain Non-Financial Bid complete in all respects including qualifying data, commercial terms and conditions with caption "Non-Financial Bid"

Envelope-2: Shall contain Financial Bid and marked "Financial Bid". Bidder shall quote separate charges for Part 'A' and Part 'B'.

Both the Envelopes 1 & 2 should be put in the third envelope with caption "Separate sealed Envelopes of Non-Financial Bid and Financial BID"

The outside of all the envelopes should also indicate clearly the name of bidder and address.

The bid document complete in all respects should reach in the office of PACL at the address given below before the closing time for submission of bids at the following address on or before the last date of submission:

EXECUTIVE DIRECTOR (MATERIALS & FINANCE)
PUNJAB ALKALIES & CHEMICALS LIMITED,
SCO 125-127, SECTOR 17-B,
CHANDIGARH - 160 017

The bidders have the option of sending the bid by registered post/speed post/courier or submitting the bid in person, so as to ensure that the bids are received at the above address of the Company, by the date and time indicated in the tender documents. Bids submitted by Fax/ telegram/email will not be accepted.

The Bid and all related correspondence and documents should be

written in the English language. Supporting documents and printed literature furnished by Bidder with the Bid should also be written in English language only. The original Bid and the supporting materials, which are not written in English, will not be considered by PACL.

The Financial Bid shall not be opened in the presence of the bidders. The Evaluation of bids and selection of bidder shall be done by PACL as per the criteria laid down in the Materials Manual of the Company and PACL shall not be under obligation to share the same with the bidders or their local partners.

1.7 LAST DATE FOR SUBMISSION OF BID

Bidders after visiting PACL's Site should submit their bid within 30 days from the date of publication of the tender notice i.e. up to 1700 hours IST on the 09.09.2017 at the specified address in the manner as mentioned in the tender documents.

1.8 VALIDITY OF BID

Bid shall be valid for a period of 90 days from the last date of submission of bid. In exceptional circumstances, PACL may request Bidders to extend the Validity Period of the bid for a specified additional period, which shall not exceed 180 days. The request and the responses thereto shall be made in writing by post or email.

1.9 ARBITRATION

In all cases of dispute or disagreement between the parties hereto as to any matter arising out of or relating to this Purchase Order/Work Order whether such dispute or disagreement shall arise during the continuance of this Purchase Order/ Work Order regarding interpretation of this Purchase Order/ Work Order or any clause or clauses thereof or upon or after the termination hereof and provided no understanding between the parties can be reached for the settlement of the difference such dispute or difference shall be referred to the sole arbitration of the Managing Director of Punjab Alkalies & Chemicals Limited or any other officer appointed by him on his behalf, in accordance with the provisions of Arbitration and Conciliation Act 1996 or any Statutory modifications or substitute thereof and all the provisions of that Act, so far as are applicable or of any of them for the time being in force shall apply to every reference hereunder.

The award given by such Arbitrator shall be final, conclusive and binding upon the parties to this Purchase Order/Work Order. The Arbitrator may from time to time, with the consent of parties, enlarge

the time for making or publishing the award. The arbitration proceedings shall be held at Chandigarh.

Notwithstanding any pending reference to arbitration, both parties shall proceed with the execution of their commitments, under the Work Order until the arbitration award is known unless the question of such continuance is a subject matter of such proceedings.

1.10 LAW & ITS JURISDICTION

You shall be governed by the laws of Government of India in force from time to time and shall be deemed to have been concluded in the Union Territory of Chandigarh. All suits and proceedings shall be subject to jurisdiction of the courts at Chandigarh only.

1.11 JURISDICTION

All disputes whatsoever that may arise between parties out or in connection with this contract shall always be deemed to have arisen in Chandigarh and only Chandigarh Court will have jurisdiction of entertain them.
