



ADB

Guide on

BID EVALUATION

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Asian Development Bank



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Asian Development Bank

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Preface

The principles and procedures outlined in this Guide on Bid Evaluation (hereinafter referred to as “the Guide”) are as prescribed by the **Procurement Guidelines** (“Guidelines”) and are applicable to the procurement of goods (“Goods” which includes related services¹) and works (“Works”) that are financed in whole or in part from the proceeds of a loan from the Asian Development Bank (“the ADB”). In accordance with the Guidelines, the ADB requires its borrowers (“Borrowers”) or their Project Executing Agencies (“Executing Agencies”) to submit a “Bid Evaluation Report” for ADB’s approval prior to award of contract.²

Bid Evaluation Reports prepared by Borrowers, Executing Agencies and their consultants (“Consultants”) in response to the ADB’s requirements have often been inadequate in form and substance; in many cases the ADB principles and procedures for procurement have been violated. In such cases it becomes necessary for the ADB to obtain additional information or to request clarifications and additional analyses after the receipt and initial review of the report. Such delays have frequently necessitated requests to bidders for extension of the bid validity period; however, if the bidder that has submitted the lowest bid price does not wish to comply with that request, it would lead to the award of the contract to a higher bidder. This consequence is highly undesirable, not only for the Executing Agency which has to pay a higher price than necessary for the implementation of a project, but also for bidders who are forced to maintain their bid prices for an unreasonable period of time or, after incurring the expenses of bidding, to withdraw from the competition. Finally, such developments are undesirable from an operational point of view since the ADB is responsible, under the terms of its Charter, to ensure that projects which it finances are carried out with due regard to “economy and efficiency”. Losing the opportunity to award a contract on time to the lowest evaluated substantially responsive bidder is neither economical nor efficient.

Given the difficulties inherent in the evaluation process and in the preparation of complete, accurate and concise Bid Evaluation Reports, the Guide has been written to provide Borrowers, Executing Agencies, and their Consultants with guidance on bid evaluation procedures and on the format of the report to be submitted to ADB.

Part I of the Guide sets out a systematic step-by-step bid evaluation procedure covering all relevant factors which must be taken into account in determining the lowest evaluated substantially responsive bid in accordance with the terms and conditions of the bidding documents. It also illustrates how the report to ADB should be put together using the tables of analysis prepared during the evaluation process.

Part II of the Guide consists of three examples of bid evaluation reports, one for a supply contract involving the procurement of goods; one for a civil works contract; and one for a supply, delivery and installation contract involving the procurement of plant, or equipment, and installation works under a single responsibility contract.

¹ The term “Services” does not include consultants’ services, which are subject to separate rules contained in the ADB’s “*Guidelines on the Use of Consultants by Asian Development Bank and its Borrowers*”.

² Bids solicited under International Competitive Bidding and National Competitive Bidding usually are above threshold amounts stipulated in a project-related loan agreement.

Use of the procedures proposed in the Guide are recommended. It is recognized that in some procurement cases it may be necessary to modify the procedure in particular the table of analysis, to suit the nature of the procurement in question.

The ADB hopes that the information provided in the Guide will be useful and will help to reduce or eliminate the problems which have been encountered in the past. However, it should be noted that the purpose of the Guide is to provide assistance to Executing Agencies on bid evaluation reflecting the procurement principles and practices embodied in the **Procurement Guidelines**. In case of ambiguities or discrepancies between this Guide and the provisions of the loan agreement or the provisions of the bidding documents, the provisions of the loan agreement or the bidding documents prevail over the Guide.

Any additional information on procurement under ADB-assisted projects can be obtained from

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PART 1

BID EVALUATION PROCEDURE AND REPORTING

Section 1. General

A. INTRODUCTION

1.1 Procurement under projects financed by the Asian Development Bank, hereinafter referred to as “the ADB” or “ADB”, must be carried out in accordance with the general principles, practices and procedures laid down in the *Procurement Guidelines*, hereinafter referred to as “the *Guidelines*”. The policies applicable to procurement which have been incorporated in the *Guidelines* are derived from the provisions in The Agreement Establishing the Asian Development Bank (“the Charter”). The basic principles relating to procurement that are stipulated in the Charter are:

- (i)¹ the proceeds of any loan shall be used only for procurement in member countries of goods and services produced in member countries; and
- (ii)² the ADB shall ensure that the proceeds of any loan made by the ADB are used only for the purpose for which it was approved, with due attention given to considerations of economy and efficiency.

1.2 All procurement for ADB-financed projects must conform to the above basic principles set forth in the Charter and the *Guidelines*. Further, the ADB, being a public international, multilateral development finance institution, has an obligation to provide adequate, fair and equal opportunity to supply goods, services and works under ADB-financed projects to interested bidders from all its member countries. If any of these basic principles are not followed in the procurement process, including bid evaluation and contract award, the ADB may refuse to finance that particular procurement and cancel the corresponding portion of the loan.

1.3 Bidding documents approved for ADB-financed procurement should include the provisions necessary to satisfy the ADB’s principles, practices and procedures. Evaluation of bids must be consistent with the terms and conditions stipulated in the bidding documents. Fair, accurate and transparent evaluation of bids is one of the most important aspects of procurement. Also, the ADB must be satisfied that its objectives of economy, efficiency and fairness among bidders have been met.

B. PURPOSE OF BID EVALUATION

1.4 The main purpose of bid evaluation is to determine the lowest evaluated substantially responsive bid among the bids submitted on or before the

¹ Article 14(ix) of the Charter.

² Article 14(xi) of the Charter.

bid closing date and time specified in the bidding documents. The lowest evaluated substantially responsive bid may or may not necessarily be the lowest priced bid. In order to determine accurately the lowest evaluated substantially responsive bid in accordance with the terms and conditions of the bidding documents, a logical systematic evaluation procedure designed to cover all aspects of the evaluation process should be followed.

C. PRINCIPLES IN BID EVALUATION³

1.5 There are certain principles and practices of the ADB in bid evaluation that must be clearly understood and observed in the bid evaluation process.

(a) Confidentiality of Procedures

After the public opening of bids, no information relating to the examination, clarification and evaluation of bids, and recommendations concerning awards, shall be communicated to any person not officially concerned with these procedures until the announcement of the award of the contract to the successful bidder has been made.

(b) Clarifications and Alterations of Bids

No bidder will be permitted to alter its bid after the bids have been opened. Only clarifications, which do not change the substance or price of the bid may be requested or accepted by the Executing Agency. The request for clarifications and the response by the bidder shall be in writing or by acceptable electronic means (such as facsimile or documents sent through e-mail). Any response to an inquiry of the Executing Agency which leads to a change in the bid price shall be considered as an alteration and shall not be considered in the bid evaluation. The records of all clarifications sought and received must be kept by the Executing Agency.

(c) Rejection of Bids

All valid bids received shall be evaluated in accordance with the terms and conditions of the bidding documents, and only those bids which do not substantially meet the specifications on the bidding requirements may be rejected.

(d) Extension of Bid Validity Period

The Executing Agency shall make every effort to complete bid evaluation and contract award before the expiration of bid validity. The validity of bids may only be extended in exceptional circumstances, and with the prior approval of ADB. If an extension of bid validity is considered necessary, all those who submitted bids shall be asked to extend the validity of their bids. Bidders who are willing to extend the validity of their bids shall not be permitted to modify the substance or price of their bids.

³ Generally for the default bidding procedure of "single-stage, one-envelope." See Part D for other bidding procedures.

They must, however, be required to extend the validity of their bid securities. The bid securities of bidders who do not extend the validity of their bids shall be returned to them promptly.

(e) Rejection of All Bids

The rejection of all bids is justified when the bids submitted are not substantially responsive or where none of the bids received meet the specifications or where there is evidence of lack of competition. The rejection of all bids and calls for new bids solely for the reason of high prices are not accepted by ADB. Where all bid prices have substantially exceeded the cost estimate, the Borrower may, instead of calling for new bids, and after consultation with ADB, negotiate with the lowest evaluated bidder for a reduction of the bid price. If no satisfactory contract can be concluded, rebidding should be initiated with appropriate modification of the scope of the contract.

(f) Currency of Bid Evaluation

Whether a Bidder quotes in any foreign currency, as in the procurement of goods, or in local currency, as in the procurement of works, for bid evaluation and comparison purposes, all bid prices shall be converted into a single currency, using the selling exchange rates officially prescribed for similar transactions on the date specified in the bidding document. The Executing Agency shall make this conversion using the selling (exchange) rates for those currencies quoted by an official source, such as the central bank.

(g) Provisional Sums for Contingencies

Provisional Sums for Contingencies are budgetary items only, and are not bid competitively. They may be a fixed amount, or a percentage of the bid price as a whole or the bid price of specific schedules of the bill of quantities as specified in the bidding documents. As contingencies are not bid competitively, they must be excluded for evaluation purposes.

(h) Provisional Sums for Dayworks

These are commonly found in contracts where the likely incidence of unforeseen works cannot be covered by definitive descriptions and estimated quantities in the bill of quantities. Dayworks are works carried out as directed by the appropriate authority stipulated in the bidding documents. They are paid for on the basis of the time spent and the resources employed by the contractor comprising workers, materials and equipment at unit rates quoted in the bid. Dayworks shall be included for bid evaluation purposes only if priced competitively. To be priced competitively, the Executing Agency must provide nominal quantities for each item in the daywork schedule and bidders shall quote both unit rates and the products of the nominal quantities and unit rates for each item. The total of the daywork schedule is then included in the bid price for evaluation purposes. If nominal quantities are not specified by the Executing Agency or the unit rates are not priced competitively, dayworks shall be excluded for evaluation purposes.

(i) Other Provisional Sums

Other Provisional Sums are sometimes included by the Executing Agency in schedules of the bill of quantities to cover services to be provided by the bidder that cannot be accurately described or quantified in the bill of quantities. Payment to the bidder is usually made by the Executing Agency against receipts supplied by the bidder for the services supplied, normally with an additional specified percentage for use of the bidder's funds. As the provisional sums are stipulated in the bill of quantities by the Executing Agency, they are not priced competitively and shall be excluded for evaluation purposes.

D. ADB'S BIDDING PROCEDURES UNDER COMPETITIVE BIDDING

1.6 The ADB has adopted four competitive bidding procedures which may be selected by the Executing Agency to suit the nature of the particular procurement: (i) Single-Stage, One-Envelope, (ii) Single-Stage, Two-Envelope, (iii) Two-Stage, Two-Envelope, and (iv) Two-Stage. The use of the Two-Envelope (Single- or Two-Stage), and the Two-Stage bidding procedures are subject to the ADB's advance approval on a case-to-case basis which will depend on the complexity of the contract and the particular circumstances surrounding the procurement concerned.

(a) Single-Stage, One-Envelope Bidding Procedure

In the Single-Stage, One-Envelope bidding procedure, the bidders submit bids in one envelope containing both the price proposal and the technical proposal, which are opened in public at the date and time advised in the bidding documents. The bids are evaluated and, following approval by the ADB, the contract is awarded to the lowest evaluated substantially responsive bidder.

(b) Single-Stage, Two-Envelope Bidding Procedure

In the Single-Stage, Two-Envelope bidding procedure, the bidders submit simultaneously two sealed envelopes, one containing the technical proposal and the other the price proposal. Initially, only the technical proposals are opened at the date and time advised in the bidding documents. The price proposals remain sealed and are held in custody by the Executing Agency. The technical proposals are evaluated by the Executing Agency. No amendments or changes to the technical proposals are permitted. The objective of the exercise is to allow the Executing Agency to evaluate the technical proposals without reference to price. Bids of bidders who do not conform to the specified requirements may be rejected, with the approval of the ADB, as deficient bids. Following ADB approval of the technical evaluation, and at a date and time advised by the Executing Agency, the price proposals are opened in public. The price proposals of the technically responsive bidders are evaluated and, following approval by the ADB, the award of contract is made to the lowest evaluated substantially responsive bidder.

(c) Two-Stage, Two-Envelope Bidding Procedure

In the Two-Stage, Two-Envelope bidding procedure, the bidders submit simultaneously two sealed envelopes, one containing the technical proposal and the other the price proposal. Initially, only the technical proposals are opened at the date and time indicated in the bidding documents. The price proposals remain sealed and are held in custody by the Executing Agency. The technical proposals are evaluated, and if the Executing Agency requires amendments or changes to the technical proposals such amendments and changes are discussed with the bidders. Following discussion of the amendments and changes to the technical proposals and approval by ADB of the evaluation of the technical proposals, the bidders are invited to submit revised technical proposals and supplementary price proposals based on the revised technical proposals. The supplementary price proposals should only contain the changes in price resulting from the changes in the technical proposals. Supplementary price proposals which contain changes other than those discussed during technical evaluation may result in rejection of the bids. The objective of the exercise is to ensure that all technical proposals conform to the same acceptable technical standard and meet the technical requirements of the Executing Agency. Bids of bidders who are unable or not prepared to amend their technical bids so as to conform to the technical standard required by the Executing Agency may be rejected, with the approval of the ADB, as deficient bids. The original price proposals, the supplementary price proposals, and the revised technical proposals are opened in public at a date and time advised by the Executing Agency. The price proposals and the supplementary price proposals are evaluated and, following approval by the ADB, the award of contract is made to the lowest evaluated substantially responsive bidder.

(d) Two-Stage Bidding Procedure

In the Two-Stage bidding procedure, the bidders initially submit their technical proposals in accordance with the specifications, but without prices. The technical proposals are opened at the date and time advised in the bidding documents. The technical proposals are evaluated by the Executing Agency and discussed with the bidders. Any deficiencies, extraneous provisions and unsatisfactory technical features are pointed out to the bidders whose comments are carefully evaluated. The bidders are allowed to revise or adjust their technical proposals to meet the requirements of the Executing Agency. The objective of the exercise is to ensure that all technical proposals conform to the same acceptable technical standard and meet the technical requirements of the Executing Agency. Bids of bidders who are unable or not prepared to amend their technical bids so as to conform to the technical standard required by the Executing Agency may be rejected, with the approval of the ADB, as deficient bids. After the evaluation of technical proposals has been approved by the ADB, the second stage is to invite bidders to submit revised technical proposals and to submit price proposals based on the revised and agreed upon technical proposals. The price proposals and revised technical proposals are opened in public at a date and time

advised by the Executing Agency. In setting this date, the Executing Agency should allow sufficient time for bidders to prepare price proposals and incorporate the changes required in the technical proposals. The price proposals and revised technical proposals are evaluated and, following approval by the ADB, the award of contract is made to the lowest evaluated substantially responsive bidder.

- 1.7 The Single-Stage, One-Envelope bidding procedure is the default or main bidding procedure and is used in most of the procurement financed by ADB. The Single-Stage, Two-Envelope bidding procedure allows bids at the first stage of evaluation, to be evaluated on purely technical and commercial grounds without reference to price. The Two-Stage, Two-Envelope bidding procedure should be used for procurement where alternative technical proposals are possible such as for certain types of machinery or equipment or manufacturing plant. The Two-Stage bidding procedure may be adopted in large and complex contracts where technically unequal proposals are likely to be encountered or where the Executing Agency is aware of its options in the market, but for a given set of performance requirements there are two or more equally acceptable technical solutions available to the Executing Agency.

Section II. Bid Evaluation Procedure

The Experience of ADB has shown that the evaluation procedure described below is generally adequate for an expeditious evaluation of bids to determine the lowest evaluated substantially responsive bid in accordance with the terms, conditions and specifications stipulated in the bidding documents. Further, the evaluation procedure, if strictly followed, will provide fairness to all bidders as it will produce a transparent, fair and accurate outcome of the bidding. There are four distinct stages in the bid evaluation process which should be followed in a logical sequence.

The bid evaluation procedure described in this Section is basically for the procurement of goods, unless otherwise specified, and for a Single-Stage, One-Envelope bidding procedure. The evaluation procedures can be modified to meet the requirements of the various types of contracts and bidding procedures.⁴

A. STAGE 1: COLLECTION OF INFORMATION

1. Basic Data

- 2.1 Before starting the actual evaluation it is necessary to collect all the key information pertaining to the bidding so that it is readily available and the evaluation process is kept in proper perspective. A sample of the Basic Data Sheet is shown in Appendix 1.

2. Record of Bid Opening

- 2.2 All bids received prior to the deadline fixed for submissions shall be opened at the time, date and place specified in the bidding documents. All bidders that have submitted bids and their representatives shall be invited to be present at the opening of bids, and all those present at the bid opening shall be required to sign the attendance sheet.

A Record of Bid Opening, identifying all the bids received, the bid prices including alternative bids if any, and the presence or absence of the requisite bid security or bid securing declaration, if either one is required, read out at the public opening of bids, should be formally prepared. All discounts offered, modifications and withdrawals should also be recorded. The record of the bid opening should be signed by all members of the bid opening committee or persons responsible for bid opening. It is also recommended that all bidders present sign the record of the bid opening in order to ensure that the data has been read out and recorded correctly. A sample format of the Record of Bid Opening is shown in Appendix 2. A copy of the Record of Bid Opening should be sent to the ADB for information immediately after the public opening of bids.

⁴ Refer to the Standard Bidding Document (SBD) prepared by the ADB for each bidding procedure.

3. Preliminary Examination for Completeness of Bids

- 2.3 The purpose of this step is to examine whether the bids received were complete as required by the bidding documents before further detailed evaluation. The areas to be covered by the examination are (i) whether **required** securities or bid securing declaration, if either one is required, have been furnished or not; (ii) whether bid documents have been properly signed or not; (iii) whether a power of attorney or any relevant document (i.e., Letter of Authorization, Board Resolution) for the authorized person has been submitted or not; (iv) whether joint venture agreements, or Letters of Intent to Enter into an Agreement, if required, are submitted or not; (v) whether documents establishing the eligibility of bidders and goods have been furnished or not; (vi) whether documents required to assess the postqualification of a bidder with respect to its financial and technical capability to undertake the contract have been provided or not; and (vii) whether bids are generally in order for further evaluation.

B. STAGE 2: DETERMINATION OF SUBSTANTIAL RESPONSIVENESS OF BIDS

- 2.4 The scrutiny of bids for substantial responsiveness to the provisions of the bidding documents is one of the most important aspects of the evaluation of bids. A bid is considered substantially responsive if it does not contain any "Major Deviations" from the bidding documents or conditions which cannot be determined reasonably in terms of monetary value for financial adjustment. A major deviation is one which (a) has an effect on the validity of the bid; or (b) has been specified in the bidding documents as grounds for rejection of the bid; or (c) is a deviation from the commercial terms or the technical specifications in the bidding documents whose effect on the bid price is substantial but cannot be given a monetary value. The purpose of the exercise is to reject bids which are not substantially responsive to major commercial and technical requirements.

1. Preparation of Table of Bidders and Bid Prices

- 2.5 The information contained in the Record of Bid Opening needs to be supplemented with the actual bid evaluation and comparison of bid prices. Therefore, it will be necessary to prepare the Table of Bidders and Bid Prices setting out details such as different items, sections, schedules, and packages for detailed comparison. Firstly, the bids should be examined for arithmetical errors and the errors, if any, should be corrected as specified in the bidding documents. The bidders must accept the corrections of arithmetical errors in accordance with the bidding documents. If a bidder refuses to accept the corrections of errors calculated in accordance with the provisions of the bidding documents, its bid shall be rejected and its bid security shall be forfeited, or its bid securing declaration shall be executed
- 2.6 Since bids may have been received from different countries involving different currencies, it is necessary to convert all bid prices to the specified currency for bid comparison. The rates of exchange used

should be in accordance with the provisions of the bidding documents. Preferably the bids should be arranged in the order of ascending price. A sample format for the Table of Bidders and Bid Prices is shown in Appendix 3.

2. Substantial Responsiveness to Commercial Terms and Conditions

2.7 All bids must be checked for substantial responsiveness to the commercial terms and conditions of the bidding documents. Examples of nonconformance to commercial terms and conditions, which are justifiable grounds for rejection of a bid, are:

- (a) failure to sign the Bid Form and Price Schedules by the authorized person or persons;
- (b) failure of bidder to satisfy eligibility requirements, (i.e., bidder is not from an eligible source country of ADB);
- (c) failure to submit a bid security or bid securing declaration as specified in the bidding documents;
- (d) failure to satisfy the bid validity period (i.e., the bid validity period is shorter than specified in the bidding documents);
- (e) inability to meet the critical delivery schedule or work schedule clearly specified in the bidding documents, where such schedule is a crucial condition with which bidders must comply;
- (f) failure by manufacturer or supplier, or both, to comply with minimum experience criteria as specified in the bidding documents;
- (g) conditional bids, i.e., conditions in a bid which limit the bidder's responsibility to accept an award (e.g., acceptance of the award is subject to government's approval for export, prior sale or availability of critical material available in the market, or a bid submitted with a price escalation condition when a fixed price bid is specified, or qualifications to the Conditions of Contract);
- (h) inability to accept the price adjustment formulae of the bidding documents;
- (i) failure to submit major supporting documents required by the bidding documents to determine substantial responsiveness of a bid.

3. Substantial Responsiveness to Technical Requirements

2.8 All bids must be checked for substantial responsiveness to the technical requirements of the bidding documents. Examples of nonconformance to

technical requirements, which are justifiable grounds for rejection of a bid, are as follows:

- (a) failure to bid for the required scope of work (e.g., for the entire works or a complete package or a complete schedule) as instructed in the bidding documents and where failure to do so has been indicated as unacceptable;
- (b) failure to quote for a major item in the package;⁵
- (c) failure to meet major technical requirements (e.g., offering completely different types specified, plant capacity well below the minimum specified, equipment not able to perform the basic functions for which it is intended);
- (d) failure to submit type-test reports for critical equipment, as clearly specified in the bidding documents.

In respect of type-test reports, the provisions below are to be followed:

- Equipment which has never been tested for critical performance by an independent and well known testing laboratory shall not be accepted. In such cases, a promise or agreement by a bidder to have the equipment tested after award of a contract is not acceptable. However, major equipment suppliers normally conduct the type tests in their own laboratories. The purchaser may accept such test certificates (a) if the testing laboratory, has ISO 9000 (or its equivalent) series certification, or (b) the tests have been witnessed by technically qualified representatives of earlier clients or purchasers.
- Test reports to be acceptable must be related directly to the equipment offered. Test reports for a higher class of equipment are acceptable with a commitment to perform the type test on the particular equipment after the contract is awarded. Reports of critical tests conducted earlier than the date specified in the specifications should not be accepted.
- Failure to submit some type-test reports with a bid need not be considered as a major deviation rendering the bid nonresponsive. A valid test report could be accepted subsequent to the bid closing date unless the bidding document specified otherwise. For complex turnkey contracts, involving the supply of a large quantity of equipment, the critical type-test certificates, if any, should be specified in the bidding documents. For critical

⁵ A major item is approximately 10 percent or more of the total bid price or is an item that, if omitted, makes the bid substantially incomplete.

equipment, all required test reports must be submitted for assessing the technical acceptance of the bid. For “less than critical” equipment, some flexibility should be allowed, provided it is possible to assess the acceptability of the equipment based on available test reports.

- Type-test reports of the same or similar equipment manufactured by a licensor or associated companies are only acceptable if they are jointly and severally bound under the contract.

2.9 If alternative bids are acceptable, the bidding documents shall specify the conditions governing such bids. The methodology of bid evaluation and comparison for alternative bids should be specified clearly in the bidding documents and these alternative bids should be included in the bid evaluation and evaluated as specified in the bidding documents. Where bidding documents are silent in respect of the alternative bids, often, some bidders submit alternative bids in addition to their main bids. In such a case, bid evaluation should be among main bids only to determine the lowest evaluated bidder. If the alternative bid of the lowest evaluated bidder is considered more advantageous than its main bid, such an alternative bid may be accepted. Where bidders have submitted a main bid and one or more alternative bids, each with its own bid security, the bids should be considered as main bids.

4. Preparation of Table of Substantive Responsiveness of Bids

2.10 In order to ensure that a thorough check of the substantive responsiveness of all bids is carried out, a Table of Substantive Responsiveness to Commercial Terms and Table of Substantive Responsiveness to Technical Requirements should be prepared. The tables should list all major conditions for Commercial Terms and all major conditions for Technical Requirements which the bidders must meet for their bids to be considered substantially responsive. The responsiveness of each bid received should be checked against this list and its conformance or partial conformance, or nonconformance to each item should be entered in the tables. Bids that fail to conform to any of the major conditions should be considered non-responsive and should be rejected. The sample formats for the Tables of Substantive Responsiveness to Commercial Terms and to Technical Requirements are attached as Appendix 4 and Appendix 4 (A) respectively.

2.11 In the process of evaluation, bidders may be requested to provide clarifications of their bids where such clarifications are deemed necessary. Bidders are not permitted, however, to change the substance or price of their bids. Such clarifications and responses must be in writing. The records of all clarifications sought and received must be kept by the Executing Agency responsible for bid evaluation.

C. STAGE 3: DETAILED EVALUATION OF BIDS

1. Determination of Number of Bids for Detailed Evaluation

2.12 After determination of the substantially responsive bids and the non-responsive bids, a decision must be made as to how many of the remaining substantially responsive bids should be further evaluated in detail to determine the lowest evaluated bid. An examination of the number of bids remaining valid and the spread of bid prices may help determine the course of action. Where, for example, a fairly large number of substantially responsive bids remain and some of the bid prices are clustered around the lowest, the lower priced bids in the cluster, irrespective of the number, should be further evaluated. Where there is no cluster of lower priced bids, experience shows that detailed evaluation of the three lowest priced substantially responsive bids is generally adequate. The governing principle is that no bid should be excluded from further detailed evaluation if there exists a possibility that, as a result of various financial adjustments, it could become the lowest evaluated bid. Therefore, detailed evaluation should include all substantially responsive bids which have a reasonable chance of becoming the lowest evaluated bid.

2. Detailed Evaluation

2.13 Having determined the number of substantially responsive bids which should be further evaluated in detail, the next step is to scrutinize the selected bids systematically in order to compare and evaluate the bids on a common basis. The appropriate way to present the evaluation is in the form of tables, so as to record and compare the salient features of all bids to be evaluated in detail for commercial terms and for technical requirements, similar to that discussed for the determination of substantially responsive bids.

2.14 The Table for Commercial Terms should list all the important commercial conditions specified in the bidding documents such as the bid security amount and validity period, terms of payment, liquidated damages etc., and list any deviations from requirements of the bidding documents. Further, it should be stated whether a financial adjustment to the bid is considered necessary as a consequence of any minor deviation.

2.15 The Table of Technical Requirements should set out the scope of supply, delivery or work schedule, the important technical specifications of all major items of equipment and material (e.g., plant rating, capacity, speed, voltage and pressure, operating temperature, etc.), their performance characteristics (e.g., plant efficiency, fuel consumption, losses, etc.), and warranty period. Every bid being evaluated should then be scrutinized in detail and its salient features entered into the table against the listed items of the bidding documents.⁶ As in the detailed evaluation of commercial terms, any substantial deviations from the

⁶ In this respect, the task of scrutiny would be easier if the bidding documents included a Form that lists proposed deviations from Specifications, which all bidders would be required to complete as part of the bid. Such form is found in the standard bidding document for the Procurement of Plant.

technical requirements of the bidding documents should be listed and it should be determined whether a financial adjustment to the bid is necessary or the bid should be rejected as nonresponsive.

- 2.16 If deviations to both commercial terms and technical requirements of the bidding documents are numerous or the necessary discussion of a deviation lengthy, it may be preferable to prepare a separate table or sheet for each bidder.
- 2.17 It is through this systematic scrutiny that differences in bids, under detailed evaluation, are demonstrated. In this way the ground is prepared for the next phase (i.e. the determination of price adjustments necessary to bring all bids to a common basis for price comparison and to determine subsequently the lowest evaluated bid).

3. Financial Adjustment of Bid Prices (Commercial Aspects)

- 2.18 Bid price comparison is usually the final and most critical step in the bid evaluation process. To do this properly, a clear understanding of the basic principles for comparison is vital:
- (i) The bid prices should be adjusted for the purpose of bid comparison for those deviations which are permissible and which can be “translated” fairly into monetary values. The calculation of financial adjustment should be in the manner specified in the bidding documents.
 - (ii) All the adjustment factors and the basis of price comparison specified in the bidding documents must be taken into account.⁷ Factors or other criteria not listed in the bidding documents shall not be introduced during the bid evaluation.

(a) Adjustment for Deviation from the Terms of Payment

- 2.19 Deviation from the terms of payment is one of the very common deviations encountered in bids received. Unless specifically stipulated as a basis for rejection in the bidding documents, bids offering different terms of payment should not necessarily be rejected as the monetary value of such deviation can be determined fairly. Therefore, instead of rejecting the bid, the proposed terms of payment should be analyzed and an amount added to the bid price to compensate for the earlier or larger payment requested. The amount to be added should be calculated using the commercial rate of interest relevant to the situation.⁸

(b) Adjustment for Deviation from the Delivery Schedule or Completion

- 2.20 This issue has two possible cases: first, for delivery or completion later than the time specified in the bidding documents and, secondly, for

⁷ It is of importance that relevant provisions in the bidding documents are complete, specific and unambiguous. Any shortcomings in the bidding documents are likely to create uncertainties leading to arbitrary decisions.

⁸ Deviation from payment terms which involve risks to the Executing Agency, such as elimination of retention monies, should not be considered unless protected by an unconditional Bank guarantee.

delivery or completion earlier than specified in the bidding documents. In principle, unless specifically stipulated as a basis for rejection in the bidding documents, bids offering marginally different delivery or completion schedules should not be rejected. However, the bidding documents should specify the limits which are acceptable to the Executing Agency and the rate at which the price adjustment will be applied.

The price adjustment for later delivery or completion is calculated using the liquidated damages provision in the Conditions of Contract. The maximum limit for the price adjustment should be normally 10 percent of the bid price. Where bidders offer an earlier delivery or completion schedule that results in the Executing Agency incurring additional costs for storage, double handling, interest for early payments, early take-over, etc., the price adjustment should be calculated on the basis of such costs. Any bid which requires a price adjustment in excess of 10 percent for late or early delivery should be considered nonresponsive and the bid rejected.

In cases where the Executing Agency has offered a bonus for early completion, credit price adjustments should not be given in bid evaluation. Such a bonus will be considered only during contract implementation if the contractor indeed manages to complete the works early.

(c) Adjustment for Deviation from Provisions for Payment of Duties and Taxes (in Civil Works Contract)

- 2.21 In supply contracts and in supply and installation contracts involving importation of goods, the cost of duties and taxes in the borrowing country shall not be included in the comparison of bid prices. The exclusion from bid comparison of the import tax element levied in the borrowing country in respect of imported goods in a supply contract is to avoid any distortion of bid competitiveness for various reasons such as the imposition of high differential tax rates, etc. The ADB regards taxes on finished imported goods as an internal transfer of funds within the country and therefore they should not be taken into account in determining the economy and competitiveness of bids in a supply contract.

However, for evaluation purposes the ADB permits taxes to be included in the bid price in civil works contracts.⁹ The ADB considers that in civil works contracts both local contractors and foreign contractors have the equal right to choose the locally produced goods and services or imported goods and services. Thus, both local and foreign contractors have fair and equal opportunities to quote their best prices. If the bidder fails to quote the cost of duties and taxes as specified in the bidding documents, the cost of such duties and taxes should be estimated and added to its bid price for bid comparison, rather than the bid rejected.

⁹ The ADB usually finances direct and indirect foreign currency, and sometimes part of the local expenditure components of the civil works contract by applying estimated percentages. The taxes are not included in the portion financed by the ADB.

4. Financial Adjustment of Bid Prices (Technical Aspects)

2.22 Major deviations from the technical requirements which will result in the rejection of bids are discussed in Stage 2 of this Evaluation Procedure. Other deviations, classified as minor or non substantive, may relate to a great number of requirements included in the technical specifications of the bidding documents. They vary from contract to contract and depend on the nature of the requirements, materials or works. Some deviation, which will not have any effect on price or quality of the goods and services offered, can be accepted for evaluation purposes without a price adjustment. Other deviations, which will affect the cost, should be expressed in monetary terms and added to the bid price for purposes of evaluation. All cost adjustments should be made by the Executing Agency and its consultants without any consultations with the bidder regarding the justification for the amount of the adjustment.

(a) Adjustment for Completeness in Scope of Supply

2.23 The cost of minor omissions or missing items in the scope of supply, services, etc. should be added to the bid price to allow for bid comparison on an equal basis. The price adjustment should be based on a reasonable estimate of the cost by the Executing Agency, consultant or bid evaluation committee, taking into consideration the corresponding quoted prices from other conforming bids. The price adjustment should be based on the fair price of the omitted item. In the event of uncertainty, the average quoted price by the other responsive bidders may be used.

(b) Adjustment for Technical Compliance

2.24 Similarly, a minor deficiency in technical compliance should not be a cause for rejection of the bid. An example of a minor deficiency would be a bid to supply vehicles that offers cross-ply tires instead of the specified radial-ply tires. An item in a supply schedule or bill of materials that is ineligible because it is produced in a non-member country of the ADB, and which is considered a minor deviation, is similarly not cause for rejection of the bid.¹⁰ The cost of making good any deficiency, including replacing ineligible items with eligible ones, should be added to the bid price concerned. The price adjustment should be estimated as stated in Clause 2.23 above. Rectification in the awarded contract of minor deficiencies, including replacement of noncompliant, missing, or ineligible items is explained in Section IV, para. 4.4.

(c) Adjustment for Specified Technical Evaluation Factors

2.25 For energy consuming equipment and facilities, adjustment for efficiency over and above the minimum functional guarantees specified (e.g.,

¹⁰ All goods and related services supplied under ADB-financed contracts shall have as their country of origin an eligible country of the ADB, irrespective of their value. Country of origin is the country where the goods have been mined, grown, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components. It is the country of origin that determines eligibility, not the nationality of the firm that produces, assembles, distributes, or sells the goods. In determining if the inclusion of ineligible item(s) in a bid constitutes a minor or major deviation, the value of the item(s) would normally be the determining factor (refer to paras 2.8 [b] and 2.29).

generators, pumps), losses (e.g., transformers) and future operating costs of the equipment may be taken into account in determining the evaluated bid price. The financial cost of these adjustments (added to or deducted from the bid price as the case may be) shall be made only when it is specified in the bidding documents that these functional guarantees and projected operating costs are factors in bid evaluation. The methods of calculation of these evaluation factors shall be clearly specified in the bidding documents. No deviation from the specified manner of cost calculation should be introduced.

(d) Adjustment for Spare Parts

- 2.26 Only those spare parts and tools which are specified on an item-wise basis in the scope of supply shall be taken into account in the bid evaluation. Suppliers' recommended spare parts for a specified operating requirement should not be considered in bid evaluation.

(e) Adjustment for Cost of Inland Transportation to the Project Site

- 2.27 If bidders are required to include the cost for local handling and inland transportation from the port-of-entry or EXW to the project site and fail to include such cost in their bids, the cost for local handling and inland transportation may be estimated, based on prevailing rates, and added to the bid price.
- 2.28 If the bid calls for the supply of goods on CIF or EXW basis only; but the cost of local handling and inland transportation is going to be considered for bid comparison purposes, then the cost of local handling and inland transportation should be calculated in the manner specified in the bidding documents and added to all the bid prices for comparison purposes only.

(f) Maximum Amount of Adjustment for Deviations

- 2.29 In some cases, bids contain so many deviations requiring adjustments to the bid price that the total value of all adjustments constitutes a large percentage of the bid price. In such cases, each deviation by itself may be considered minor but both the number of deviations and their total value make it necessary to consider the bid as a whole nonresponsive. In other instances, adjustments for only one or a few deviations have a relatively high monetary value, as would be the case with deviations regarding retention money or liquidated damages. It is, therefore, useful to adopt a percentage of the bid price as the maximum amount of adjustments which can be made without considering the bid nonresponsive. Fifteen percent of the bid price is considered an appropriate limit for the total monetary value of all adjustments to the bid price; if the total exceeds 15 percent of the bid price, the bid may be rejected as nonresponsive.

If such a limit on adjustments is adopted, an adjustment for more than one commercial deviation, such as the provisions for retention money and liquidated damages, may be large enough to require rejection of the bid. If the bid contains several deviations, it is useful to review what

major adjustments will be necessary before calculating all adjustments. Such review may show that the total adjustments would exceed the limit in which event, the bid can be rejected before carrying out a detailed evaluation.

5. Detailed Evaluation of Bids for a Civil Works Contract

2.30 Detailed evaluation of bids for a civil works contract is similar in substance and format to those for supply contracts. The major difference is that the detailed evaluation includes, in the case of civil works contracts, analysis of unit rates, plans and schedules, and proposed equipment and staffing, which are normally not needed in the evaluation of bids for supply contracts.

(a) Plans and Schedules

2.31 The plans and schedules submitted by bidders to show how they propose to perform the contract requirements must be consistent with the requirements of the bidding documents. Included in the examination are construction and mobilization schedules, construction methods and approach, human resources and equipment schedules, plans for the contractor's site organization and contract management, etc. The results of the examination should be recorded in a tabular form. A sample for such purpose is attached as Appendix 5(A). Table of Salient Technical Features of Bids.

(b) Analysis of Bill of Quantities and Unit Rates

2.32 The analysis of prices for components of the bill of quantities and for unit rates of a bid is carried out for four purposes:

- (i) to examine whether the unit rates of the bid are balanced. A bid is considered unbalanced if the unit rates are substantially higher, in relation to the estimate and the rates quoted by other bidders, for items of work to be performed early in the contract or for underestimated quantities for certain items of work. Details of unbalanced bid are given in (c) below.
- (ii) to verify whether the bid price is reasonable. An unreasonably low bid price may reflect the bidder's misunderstanding of the specifications and, accordingly, this bidder may incur substantial financial losses and fail to complete the work satisfactorily if awarded the contract. To determine the reasonableness of a bid price, it is necessary to consider all circumstances affecting the bid. A bid should not be rejected, however, solely because the bid price exceeds or is lower by a certain percentage of the estimate.
- (iii) to verify whether the bill of quantities is complete. ADB standard bidding documents for works contain a provision that the cost of items against which the bidder has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the bill of quantities. Accordingly, there should be no

adjustments for missing items in the bill of quantities unless the bidding documents specify otherwise. If, however, a bidder does not quote a price for one complete bill, for bid evaluation purposes price adjustment should be made for the missing bill, unless the missing bill is for a major component of the works, in which case, the bid should be rejected.

- (iv) to examine the completeness of unit rates. Where bidding documents require the bidder to provide drawings and/or breakdown of the price of any bid item in support of its unit rate or price for that item, any components that are missing from the drawings and/or the breakdown of the price of a bid item shall be loaded during evaluation for the price of the missing component.

(c) Unbalanced Bids

2.33 An unbalanced bid can be identified when a Table of Comparison of Major Items of Work compares unit prices quoted by bidders with the Executing Agency's estimate. Unbalanced bids can usually be classified into two main categories.

- (i) Higher unit prices for earlier works

Under this category, a bidder may purposely quote relatively high unit prices for those work elements to be performed early in the contract period so as to increase the up-front payments. The same situation can arise in some supply, delivery and installation contracts. This results in a higher cost for the Executing Agency (i.e., interest on early payment) and more importantly, the incentives for the contractor to complete the works are considerably reduced since the payments the contractor will receive during later phases of the contract may consequently be smaller than the actual costs. Generally, the bid should not be rejected unless extremely unbalanced. Instead, a higher performance security for the contractor could be required to protect the Executing Agency against financial loss in the event of default of the contract of the successful bidder.

- (ii) Higher unit rates for underestimated work items

In this category, a bidder who has reason to believe that the quantities given in the Bill of Quantities for one or more work items are underestimated will quote unduly high prices for those items. In most civil work contracts, both the contractor and the Executing Agency are protected from such technical errors by incorporating the provision that a new unit price will be negotiated if the amount of any item increases by more than 2 percent of the contract price or the actual quantity of work executed under the item exceeds or falls short of the quantity set out in the Bill of Quantities by more than 25 percent. If such provision is not included in the bidding documents, then at the time of contract negotiations, agreement should be reached to

include the above provision as part of the Contract, rather than rejecting the bid.

(d) Clarifications, Correspondence and Meetings

- 2.34 In many civil work contracts, the Executing Agency may wish to correspond with the bidders for clarifications of their bids. Details of pricing, work methods, scheduling and sourcing of materials are usually the principal subjects of such bid clarifications.

D. STAGE 4: DETERMINATION OF THE LOWEST EVALUATED SUBSTANTIALLY RESPONSIVE BID

- 2.35 After going through the above three stages, the lowest evaluated substantially responsive bid shall be determined in accordance with the provisions of the bidding documents. As a final step prior to award, the Executing Agency should always ensure that the bidder whose bid has been evaluated as the lowest evaluated substantially responsive bid has the financial and technical capability or qualifications to execute the contract satisfactorily. If this is determined as positive, the contract shall be awarded to the bidder which submitted the lowest evaluated substantially responsive bid. Such bidder must not be required, as a condition of contract award, to undertake responsibilities or works not stipulated in the bidding documents or to modify the bid.

13. Evaluation of Qualifications¹¹

- 2.36 In order to determine the capability of Bidders to implement the contract satisfactorily, critical aspects of their financial and technical capabilities necessary to perform the contract need to be examined. All these criteria and their specific requirements stipulated in the bidding documents shall be evaluated on a pass/fail basis against the documentation and other evidences provided by Bidders together with their technical bids.
- 2.37 The Table of Evaluation of Bidder's Qualifications should list all the qualifications requirements for both financial and technical criteria specified in the bidding documents against which the evidences or documents submitted by bidders are compared to determine whether each bidder meets the requirements and passes, or does not meet and, therefore, fails. Failure in any of the financial and technical experience criteria leads to rejection of a bid.

14. Award of Contract

- 2.38 If the lowest evaluated Bidder is determined to have passed the qualifications criteria, the contract shall be awarded to this Bidder. Such bidder must not be required, as a condition of contract award, to undertake responsibilities or works not stipulated in the bidding documents or to modify the bid.

¹¹ At the option of the Executing Agency's bidding committee or in accordance with bidding documents issued, the evaluation of qualifications may be conducted after the preliminary examination of bids.

Section III. Domestic Preference Scheme in Bid Comparison

3.1. GENERAL

- 3.1.1 Since August 1986, the ADB has had a domestic preference scheme, which may be applied in the evaluation of bids under International Competitive Bidding¹ to be carried out pursuant to the *Procurement Guidelines* and the provisions of the loan Agreement. This scheme grants a margin of preference, subject to conditions, in favor of domestically manufactured goods and domestic contractors.
- 3.1.2 Preference for domestic goods will be offered to all borrowing ADB countries. The scheme provides that domestically manufactured goods will be eligible for preference in comparison with imported goods. This eligibility is determined, not with reference to the nationality of the bidder but with reference to domestic goods. Therefore, the preference is given not to the domestic bidder but to the locally manufactured goods. The nationality of the bidder or manufacturer is irrelevant. Bidders are required to certify, as part of their bid, the existence of the manufacturing facilities where local value is to be added. The margin of preference for domestic goods is limited to 15 percent of the CIF or CIP price of the imported goods.
- 3.1.3 Preference for domestic contractors for civil works is limited to civil works in certain borrowing countries. Domestic contractors and joint ventures must meet certain minimum criteria for eligibility under the domestic preference scheme. The margin of preference is limited to seven and one-half percent (7 1/2%) of the bid price.
- 3.1.4 Domestic preference for both supply of goods and civil works will be applied only if the government of the borrowing country so wishes and the bidding documents so provide and specify the manner in which the preference scheme will be applied in bid comparison. The provisions with regard to the implementation of the scheme are included in the Loan Agreement.

3.2 PREFERENCE FOR DOMESTICALLY MANUFACTURED GOODS

- 3.2.1 In the procurement of goods through international competitive bidding, goods manufactured in the territory of the Borrower may be granted a margin of preference in accordance with the following provisions, provided that the bidder shall have established to the satisfaction of the Borrower and the ADB that the domestic value added equals at least 30 percent of the ex-factory bid price of such goods. The 30 percent

¹ Procurement through other modes such as national competitive bidding are not eligible for domestic preference.

domestic value added applies to the total ex-factory bid price of the goods and not only to one item on a list.

- (a) For application of domestic preference, all responsive bids shall first be classified into the following three categories:

Group A - bids exclusively offering goods manufactured in the country of the Borrower if the bidder establishes to the satisfaction of the borrower and ADB that, (i) labor, raw material, and component from within the country of the borrower will account for 30% or more of the EXW price of the product offered, and (ii) the production facility in which those goods will be manufactured or assembled has been engaged in manufacturing/assembling such goods at least since the time of bid submission.;

Group B - all other bids offering goods manufactured in the country of the Borrower; and

Group C - bids offering goods manufactured abroad that have been already imported or that will be directly imported.

- (b) The lowest evaluated bid of each Group shall then be determined by comparing all evaluated bids in each Group among themselves, without taking into account customs duties and other import taxes levied in connection with the importation, and sales and similar taxes levied in connection with the sale or delivery, pursuant to the bids, of the goods.
- (c) Such lowest evaluated bids shall next be compared with each other and if, as a result of this comparison, a bid from Group A or Group B is found to be the lowest, it shall be selected for the award of contract.
- (d) If, however, as a result of the comparison under subparagraph (c) above, the lowest bid is found to be from Group C, it shall be further compared with the lowest evaluated bid from Group A. For the purpose of this further comparison only, an upward adjustment shall be made to the lowest evaluated bid price of Group C by adding 15 percent of the CIF or CIP bid price of such goods.

If, after such further comparison, the Group A bid is determined to be the lowest, it shall be selected for the award of contract; if not, the lowest evaluated bid from Group C shall be selected for the award.

3.2.2 Bidders applying for the preference shall provide evidence necessary to establish the eligibility of a bid for the preference, including the minimum domestic value added.

3.2.3 The bidding documents shall clearly indicate the preference to be granted, information required to establish the eligibility of a bid for the

preference claimed, and the procedures to be followed in the comparison of bids, all as set forth above.

3.3 DOMESTIC PREFERENCE FOR TURNKEY CONTRACTS AND SUPPLY AND INSTALLATION CONTRACTS

3.3.1 In single responsibility turnkey (including design-build) contracts and supply and installation contracts for large and complex packages, procured through international competitive bidding, and in which discrete items of goods are grouped into one contract package or in a bid package involving multiple items, a margin of preference shall be applied to the domestically manufactured goods in accordance with the following provisions:

- (a) The margin of preference shall not be applied to the whole package but only to the domestically manufactured goods within the package;
- (b) Goods offered from outside the territory of the Borrower shall be quoted CIF or CIP and goods offered domestically shall be offered ex-factory or ex-works (free of sales and similar taxes);
- (c) All other cost components, such as design as well as works installation and supervision, shall be quoted separately;
- (d) In the comparison of bids (which should not be classified into Groups as with the domestic preference for goods), only the CIF or CIP price in each bid of the goods offered from outside the territory of the Borrower shall be increased by 15 percent.
- (e) No margin of preference shall be applied to any associated services or works included in the package; and
- (f) Bidders will not be permitted or required to modify the mix of domestic and foreign goods after bid opening.

3.3.2 Bidders applying for the preference shall provide evidence necessary to establish the eligibility of a bid for the preference.

3.3.3 The bidding documents shall clearly indicate the preference to be granted, the information required to establish the eligibility of a bid for the preference claimed, and the procedures to be followed in the comparison of bids, all as set forth above.

3.4 PREFERENCE FOR DOMESTIC CONTRACTORS²

3.4.1 In the selection of civil works contractors or single-responsibility turnkey (including design-build) contractors through international competitive bidding, eligible domestic contractors, as defined below, may be granted a margin of preference in accordance with the following provisions.

² Preference for domestic contractor is applicable only in countries which qualify.

- (a) For application of domestic preference, all responsive bids shall first be classified into the following two groups:

Group A - bids offered by domestic contractors and joint ventures eligible for the preference in accordance with the applicable criteria as set forth in paragraph 3.4.2 below; and

Group B - bids offered by other contractors.

Each bid will be reviewed to confirm the appropriateness of, or to modify as necessary, the group to which the bid was assigned by the bidder in preparing it.

- (b) The lowest evaluated bid of each group shall then be determined by comparing all evaluated bids in each group among themselves.
- (c) Such lowest evaluated bids shall next be compared with each other and if, as a result of this comparison, a bid from Group A is found to be the lowest, it shall be selected for the award of contract.
- (d) If, however, as a result of the comparison under subparagraph (c) above, the lowest bid is found to be from Group B, it shall be further compared with the lowest evaluated bid from Group A. For the purpose of this further comparison only, an upward adjustment shall be made to the lowest evaluated bid price of the Group B bidder by adding an amount equal to seven and one-half percent (7 1/2%) of its bid price. If, after such comparison, the Group A bid is determined to be the lowest, it shall be selected for the award of contract; if not, the lowest evaluated bid from Group B shall be selected.

- 3.4.2 (a) To be eligible for the preference set forth in paragraph 3.4.1 above, domestic contractors must meet the following criteria:
- (i) firms are registered in the territory of the Executing Agency or Borrower;
 - (ii) firms have majority ownership by nationals of the Borrower; and
 - (iii) firms will not subcontract more than 50 percent of the total value of their work to foreign contractors.
- (b) A joint venture between a domestic contractor and foreign partner shall be eligible for the preference only if it meets the following criteria:
- (i) the domestic partner is individually eligible for the preference according to the criteria stated above;

- (ii) the domestic partner would not qualify for the contract works on technical or financial grounds without the foreign participation; and
 - (iii) the domestic partner will, under the arrangements proposed, carry out at least 50 percent of the contract works measured in terms of value.
 - (c) Contractors applying for the preference shall be required to provide, as part of the data for qualification, necessary information, including details of ownership, for determining whether, according to the applicable criteria, a particular firm qualifies for the preference.
- 3.4.3 The bidding documents shall clearly indicate the preference to be granted, the information required to establish the eligibility of firms for the preference claimed, and the procedures to be followed in the comparison of bids, all as set forth above. Bidders applying for the preference shall provide such additional information in support of such eligibility as may be requested by the Executing Agency and the ADB.

Section IV. Preparation of Bid Evaluation Report

- 4.1 The Bid Evaluation Report should include such information and documentation to establish to the satisfaction of the ADB that principles pursuant to the Loan Agreement and the **Procurement Guidelines** are satisfied in the bidding and bid evaluation process, and the proposed award of contract. These principles are as follows:
- (i) goods, services and works are sourced from eligible member countries of the ADB;
 - (ii) the transparency of the bidding process has provided adequate, fair and equal opportunity to manufacturers, suppliers and contractors from all the eligible member countries of the ADB; and
 - (iii) the principle of “economy and efficiency” has been applied in the bidding and in the bid evaluation process by establishing the lowest evaluated substantially responsive bid.
- 4.2 The information and documentation to be submitted as part of, or with, the Evaluation Report should include the following:
- a) Basic Data Sheet;
 - b) a photocopy of the Invitation for Bids advertised in an English language local newspaper of wide circulation;¹
 - c) the Record of Bid Opening including the attendance sheet of the representatives of bidders;
 - d) Tables of Bidders including nationalities, and Bid Prices including discounts offered as submitted and as corrected for arithmetic errors; if substantial arithmetic error corrections are involved, evidence that corrections for arithmetic errors have been accepted by the bidders concerned;
 - e) Table of Substantive Responsiveness showing the bidders' compliance with major commercial terms and conditions;
 - f) Table of Substantive Responsiveness showing the bidders' compliance with key provisions of the technical requirements of the specifications;
 - g) Table on Qualifications

¹ In cases where the bidding follows international competitive bidding procedures.

- h) Table of Detailed Evaluation of Bids with respect to salient commercial features of the bids, showing for each bid the adjustments made to the bid prices for deviations with references to the clauses in the bidding documents on which they are based, and indicating the methods used in computing the adjustments;
- i) Table of Detailed Evaluation of Bids with respect to salient technical features of the bids, showing for each bid the adjustments made to the bid prices for deviations with references to the clauses in the bidding documents on which they are based, and indicating the methods used in computing the adjustments;
- j) Table of Bid Price Comparison showing all bids selected for detailed evaluation, the bid price as opened, discounts if any, the arithmetically corrected bid prices, the financial adjustments for commercial terms and conditions, the financial adjustments for technical requirements to obtain the total evaluated prices for all bids concerned;
- k) records of discussions and/or copies of correspondence with bidders relating to clarifications of their bids;
- l) recommendation for award of contract;

(The information and documents listed above should be prepared based on the Sample Formats attached as Appendices to the Guide, while following the recommended evaluation procedure).
- m) draft contract or a draft letter of acceptance if such draft differs substantially from the draft previously submitted to, and approved by, the ADB; and
- n) certificate of eligibility if required by the ADB (pursuant to its Asian Development Fund requirements).

4.3 The evaluation report should include a narrative section in which information not suitable for presentation in the form of tables is presented, together with any supplementary explanations and information necessary for a complete understanding of all the factors considered during bid evaluation. In particular, the reasons for rejection of bids which are considered non-responsive to the bidding documents should be fully explained and justified in the narrative section. Similarly, the basis for adjustments in the bid prices should be adequately explained and, where appropriate, cross references made to the relevant provisions in the bidding documents. Finally, there must be a clear statement setting out fully the rationale for the recommendation for contract award.

4.4 The recommended amount for award of contract should be the bid price submitted by the bidder as corrected for arithmetic errors plus the

additional amount to make good any deficiencies in the scope of supply or technical compliance. In agreeing with the successful bidder to make good any minor deviations in the contract price for scope of supply or technical compliance, the Executing Agency should note the following.

- (i) the cost of making good the minor deviations should be included in the contract price, provided that this does not constitute a violation of Clause 2.59 of the *Procurement Guidelines*; and
- (ii) the final amount agreed between the Executing Agency and the successful bidder should not exceed the bid price (as corrected for arithmetical errors plus the amount to make good any minor deviations in the scope of supply and technical compliance) of the second lowest evaluated substantially responsive bidder.

4.5 Any report and recommendation of the consultant (if such consultant is funded under an ADB TA or loan engaged for the implementation of the project should also be sent to the ADB. If the Executing Agency and its consultants reach different conclusions and views regarding any matter affecting the selection of the lowest evaluated substantially bid, such differences should be fully explained in the body of the report.

4.6 The bid evaluation report and recommendation for contract award should be sent to the ADB as early as possible. In any event, no later than 30 days prior to expiration of bid validity, the ADB should be furnished with three copies of the complete bid evaluation report together with a covering letter. This is necessary to enable the ADB to review thoroughly the report and recommendation in order to obtain the necessary formal approval within the ADB for transmission to the Executing Agency.

APPENDIXES

Appendix 1

BASIC DATA SHEET

1.	Project Title:
2.	Loan Number:
3.	Bid or Contract Title:
4.	Bid or Contract Number:
5.	Estimated Value or Engineer's Estimate:
6.	Date Invitation For Bids Issued:
7.	Method Of Procurement: ¹
8.	Bid Closing Date And Time:
9.	Bid Opening Date And Time:
10.	Number Of Bids Received:
11.	Bid Validity Expires On:
12.	Bid Security Validity Expires On:
13.	Date For Determining Applicable Exchange Rates:
14.	Exchange Rates For Evaluation:

Notes

- (a) *Regarding "item 11 Bid Validity Expiry Date": Provided bid extensions are permissible pursuant to the bidding documents, and if the original bid validity has expired but bidders have been asked to extend the bid validity period, show the date on which bidders were requested to do so and the date to which they were requested to extend the validity. The information of which bidders have extended their bid validity and which bidders refused to extend their bid validity shall also be provided in the Basic Data Sheet.*
- (b) *Regarding Bid Security Validity Expiry Date: If the original bid validity period is extended, bidders should also be asked to extend the bid security validity period, hence information on the extended bid security validity period shall be provided in the Basic Data Sheet.*
- (c) *For "item 13 - Date for Determining Applicable Exchange Rates": The date as specified in the bidding documents shall be used.*
- (d) *For "item 14 - Exchange Rates for Evaluation", The official selling rates of all foreign currencies involved in the bid evaluation and information about the official source of such selling rates as provided in the bidding documents shall be noted.*

¹ International Competitive Bidding (ICB). National Competitive Bidding (NCB), Limited International Bidding (LIB), Shopping (S), as appropriate.

Appendix 2
Page 1 of 3

RECORD OF BID OPENING

LOAN NO..... PROJECT TITLE

BID NO..... BID/CONTRACT TITLE.....

1. The following bids were received by the closing deadline fixed on (Date) at (Time) hrs and were publicly opened and read at (Time) hrs on the same date.

No.	Name of Bidder & Address	Bid Security Amount	Bid Amount ¹				Remarks (if any e.g. bid security deficiency, no signature)	Signature of Bidders Representatives
			Package No. 1	Package No. 2	Etc. ²	Total		
1.								
2.								
3.								
4.								
5.								
6.								
Etc.								

¹ Any discounts offered should be recorded. Any alternative bids submitted should be opened.

² Number of columns depends on the number of Sub-Packages in the Bidding Documents.

Appendix 2
Page 2 of 3

2. The following bidders' representatives attended the public opening of bids and a copy of the attendance sheet is attached as an annexure of this record.

No.	Name	Designation	Bidding Company Represented
1.			
2.			
3.			
4.			
5.			
6.			
Etc.			

3. Matters transpiring during the opening of bids. *(Any modifications, bid withdrawals, complaints received, and clarifications made or announced by the bid opening committee should be recorded).*

4. Reading and signing of bids ended at hrs.

.....
 (Name, Signature, and Designation)

.....
 (Name, Signature, and Designation)

.....
 (Name, Signature, and Designation)

Appendix 2
Page 3 of 3

ATTENDANCE SHEET FOR OPENING OF BIDS

LOAN NO PROJECT TITLE
 BID NO BID/CONTRACT TITLE

Place: Date: Time:

The following bidders' representatives attended the public opening of bids.

No.	Bidder (Company Firm/Contractor)	Representative (Printed Name)	Designation	Signature
1.				
2.				
3.				
4.				
5.				
6.				
Etc.				

TABLE OF BIDDERS AND BID PRICES (SUPPLY CONTRACT)

Bid No. For the Supply of (Bid/Contract/Title)

Package (or Schedule)	Items in Package (or Schedule)	Bidder No. 1			Bidder No. 2			Bidder No. 3					
		Quoted Bid Price CIF/CIP/ EXW (1)	Discounts Offered CIF/CIP/ EXW (2)	Arithmetic Correction CIF/CIP/ EXW (3)	Corrected Bid Price CIF/CIP/ EXW (4) = (1) - (2) ± (3)	Quoted Bid Price CIF/CIP/ EXW (1)	Discounts Offered CIF/CIP/ EXW (2)	Arithmetic Correction CIF/CIP/ EXW (3)	Corrected Bid Price CIF/CIP/ EXW (4) = (1) - (2) ± (3)	Quoted Bid Price CIF/CIP/ EXW (1)	Discounts Offered CIF/CIP/ EXW (2)	Arithmetic Correction CIF/CIP/ EXW (3)	Corrected Bid Price CIF/CIP/ EXW (4) = (1) - (2) ± (3)
I	1												
	2												
	3												
	Sub-Total for I ¹												
II	1												
	2												
	3												
	Sub-Total for II ¹												
III	1												
	2												
	3												
	Sub-Total for III ¹												
	Total for All Packages												

1 If the contract is for supply, delivery, and installation, the bid price for local handling, transportation, and installation must be shown for each package and added to the sub-total for each package.

Appendix 4

TABLE OF SUBSTANTIAL RESPONSIVENESS OF BIDS (COMMERCIAL TERMS) – SUPPLY OF GOODS

Bid No. for (Bid/Contract/Title)

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here all conditions stipulated in the bidding documents with which bidders must comply for their bids to be considered responsive)</i>	<i>(Section and Clause No. of bidding documents)</i>			
1.	Signature on Bid Form by the Authorized Person	Section I, Clause 22.2 and Section II, ITB 22.2	C	C	C
2.	Power of Attorney	Section I, Clause 22.2, Section II, ITB 22.2	C	C	C
3.	Eligibility: Bidders	Section I, Clause 4	C (see details in Attachment 1 to this Appendix)	C (see details in Attachment 1 to this Appendix)	C (see details in Attachment 1 to this Appendix)
	Goods	Section I, Clause 5	C	NC ¹	C
4.	Bid Validity – 60 days	Section I, Clause 20.1, Section II, ITB 20.1	C (valid until <u>indicate here the date/month/year</u>)	C (valid until <u>indicate here the date/month/yr.</u>)	C (valid until <u>indicate here the date/month/yr</u>)
5.	Bid Security (i) Amount >2% of the Bid Price	Section I, Clause 21.1, Section II, ITB 21.1	C [<u>indicate here the bid security amount</u>]	C [<u>indicate here the bid security amount</u>]	C [<u>indicate here the bid security amount</u>]
	(ii) Validity – 90 days	Section I, Clause 21.3 Section II, ITB 21.3	C (valid until <u>indicate here the date/month/year</u>)	C (valid until <u>indicate here the date/month/yr</u>)	C (valid until <u>indicate here the date/mo/yr.</u>)
	Remarks		No major deviation	¹ Goods are from non-member country of ADB	No major deviation
	Findings		Responsive	Non-Responsive	Responsive

C = Complied
NC = Not Complied

**Appendix 4
Attachment 1**

DETAILS ON ELIGIBILITY OF BIDDERS

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
1.	Single Entity or Joint Venture If Joint Venture, all partners must be jointly and severally liable.	Section I, Clause 4.1	Single Entity	Joint Venture Partners are Jointly and severally liable	Single Entity
2.	Bidder must be a national of an eligible ADB member country. Proposed sub-contractors or suppliers must be nationals of an eligible ADB member country.	Section I, Clause 4.2	X XX (member countries)	X and XX XXX (member countries)	X X (member countries)
3.	Conflict of Interest	Section I, Clause 4.3	None	Yes, (indicate why)	None
4.	Declared ineligible by ADB	Section I, Clause 4.4	No	No	No
5.	Government-owned enterprise in Purchaser's country to be legally and financially autonomous, operate under commercial law, and not dependent agency of the Purchaser	Section I, Clause 4.5	Not a government owned enterprise	Not a government owned enterprise	Not a government owned enterprise.
6.	Not having been declared ineligible based on a United Nations resolution	Section I, Clause 4.7	Not declared ineligible	Not declared ineligible	Not declared ineligible

Appendix 4

**TABLE OF SUBSTANTIAL RESPONSIVENESS OF BIDS
(COMMERCIAL TERMS) – CIVIL WORKS**

Bid No. for (Bid/Contract/Title)

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here all conditions stipulated in the bidding documents with which bidders must comply for their bids to be considered responsive)</i>	<i>(Section and Clause No. of bidding documents)</i>			
1.	Signature on Bid Form by the Authorized Person	Section 1, Clause 20.2, Section 2, ITB 20.2	C	C	C
2.	Power of Attorney	Section 1, Clause 20.2 Section 2, ITB 20.2	C	C	C
3.	Eligibility: Bidders	Section 1, Clause 4	C (see details in Attachment 1 to this Appendix)	C (see details in Attachment 1 to this Appendix)	C (see details in Attachment 1 to this Appendix)
4.	Materials, Equipment and Services Bid Validity – 90 days	Section 1, Clause 5 Section 1, Clause 18.1, Section 2, ITB 18.1	C	C	C
5.	Bid Security (iii) Amount: \$200,000.00 (iv) Validity – 118 days	Section 1, Clause 19.1, Section 2, ITB 19.1 Section 1, Clause 19.3 Section 2, ITB 19.3	C (valid until <u>indicate here the date/month/year</u>) C [<u>indicate here the bid security amount</u>]	C (valid until <u>indicate here the date/month/yr</u>) C [<u>indicate here the bid security amount</u>] NC (Bid Security is valid for only 100 days)	C (valid until <u>indicate here the date/month/yr</u>) C [<u>indicate here the bid security amount</u>] C (valid until <u>indicate here the date/mo/yr</u>)
	Remarks		No major deviation	Major Deviation on Bid Security	No major deviation
	Findings		Responsive	Non-Responsive	Responsive

C = Complied
NC = Not Complied

**Appendix 4
Attachment 1**

DETAILS ON ELIGIBILITY OF BIDDERS

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
1.	Single Entity or Joint Venture If Joint Venture, all partners must be jointly and severally liable.	Section 1, Clause 4.1	Single Entity	Joint Venture Partners are Jointly and severally liable	Single Entity
2.	Bidder must be a national of an eligible ADB member country. Proposed sub-contractors or suppliers must be nationals of an eligible ADB member country.	Section 1, Clause 4.2	X XX (member countries)	X and XX XXX (member countries)	X X (member countries)
3.	Conflict of Interest	Section 1, Clause 4.3	None	None	None
4.	Declared ineligible by ADB	Section 1, Clause 4.4	No	No	No
5.	Government-owned enterprise in Purchaser's country to be legally and financially autonomous, operate under commercial law, and not dependent agency of the Purchaser	Section 1, Clause 4.5	Not a government owned enterprise	Not a government owned enterprise	Not a government owned enterprise.
6.	Not having been declared ineligible based on a United Nations resolution	Section 1, Clause 4.7	Not declared ineligible	Not declared ineligible	Not declared ineligible

Appendix 4

**TABLE OF SUBSTANTIAL RESPONSIVENESS OF BIDS
(COMMERCIAL TERMS) – PLANT-DESIGN-SUPPLY-INSTALL
(SINGLE STAGE: ONE ENVELOPE)**

Bid No. for (Bid/Contract/Title)

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here all conditions stipulated in the bidding documents with which bidders must comply for their bids to be considered responsive)</i>	<i>(Section and Clause No. of bidding documents)</i>			
1.	Signature on Bid Form by the Authorized Person	Section 1, Clause 22.2, Section 2, ITB 22.2	C	C	C
2.	Power of Attorney	Section 1, Clause 22.2 Section 2, ITB 22.2	C	C	C
3.	Eligibility: Bidders	Section 1, Clause 4	C (see details in Attachment 1 to this Appendix)	C (see details in Attachment 1 to this Appendix)	C (see details in Attachment 1 to this Appendix)
	Plant and Services	Section 1, Clause 5	C	C	C
4.	Bid Validity – 90 days	Section 1, Clause 20.1 Section 2, ITB 20.1	C (valid until <u>indicate here the date/month/year</u>)	C (valid until <u>indicate here the date/month/yr.</u>)	C (valid until <u>indicate here the date/month/yr</u>)
5.	Bid Security (v) Amount : \$300,000.00	Section 1, Clause 21.1 Section 2, ITB 21.1	C [<u>indicate here the bid security amount</u>]	NC (Bid Security amount is \$250,000.00)	C [<u>indicate here the bid security amount</u>]
	(vi) Validity – 118 days	Section 1, Clause 21.2 Section 2, ITB 21.2	C (valid until <u>indicate here the date/month/year</u>)	C (valid until <u>indicate here the date/month/year</u>)	C (valid until <u>indicate here the date/mo/yr.</u>)
	Remarks		No major deviation	Major Deviation on Bid Security	No major deviation
	Findings		Responsive	Non-Responsive	Responsive

C = Complied
NC = Not Complied

**Appendix 4
Attachment 1**

DETAILS ON ELIGIBILITY OF BIDDERS

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
1.	Single Entity or Joint Venture If Joint Venture, all partners must be jointly and severally liable.	Section 1, Clause 4.1	Single Entity	Joint Venture Partners are Jointly and severally liable	Single Entity
2.	Bidder must be a national of an eligible ADB member country. Proposed sub-contractors or suppliers must be nationals of an eligible ADB member country.	Section 1, Clause 4.2	X XX (member countries)	X and XX XXX (member countries)	X X (member countries)
3.	Conflict of Interest	Section 1, Clause 4.3	None	None	None
4.	Declared ineligible by ADB	Section 1, Clause 4.4	No	No	No
5.	Government-owned enterprise in Purchaser's country to be legally and financially autonomous, operate under commercial law, and not dependent agency of the Purchaser	Section 1, Clause 4.5	Not a government owned enterprise	Not a government owned enterprise	Not a government owned enterprise.
6.	Not having been declared ineligible based on a United Nations resolution	Section 1, Clause 4.7	Not declared ineligible	Not declared ineligible	Not declared ineligible

Appendix 4

TABLE 2: EVALUATION OF BIDDERS' QUALIFICATIONS

Bidder No.	Pending Litigation:	Qualification Criteria				Experience	Others (if any)		Remarks
		Turnover	Net Worth	Cash Flow Capacity					
	Must not represent more than 50% of Bidder's Net Worth	\$3.5 Million	Must be Positive for the Last Three Years	\$6.0 Million	Experience In At Least One Similar Contract In the Last Three Years (Value of \$7.0 Million)				
1	No pending litigation								
2	No pending litigation								
3	Pending litigation is equivalent to 10% of Net Worth								
4	No pending litigation								
5	No pending litigation								
6	No pending litigation								
7	No pending litigation								

Appendix 4A

TABLE OF SUBSTANTIVE RESPONSIVENESS OF BIDS (TECHNICAL REQUIREMENTS) – SUPPLY CONTRACT

Bid No for.....
(Bid/Contract/Title).....

No.	Requirements	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here the scope of supply and all key technical and performance requirements of major equipment and materials: e.g. plant, capacity, horsepower, pressure, voltage, efficiency, operating temperature etc.)</i>	<i>(Section and Clause No. of bidding document)</i>			
1.	Scope of Supply	Section VI & Schedules	C	C	
2.	Item 1. Grader 85 kW		C	C	
3.	Item 2. 8.5 m ³ capacity dump truck. left-hand drive		C	NC*	
4.	Item 3. Bulldozer. Min. 225 kW		C (210 kW)	C (225 kW)	
5.	Etc.				
	Remarks		No major deviation.	*Right-hand drive and 7 m ³ capacity	
	Findings		Responsive	Non-responsive	

C = Complied
NC = Not Complied

Appendix 5

**TABLE OF SALIENT FEATURES OF BIDS
(COMMERCIAL TERMS AND CONDITIONS) – SUPPLY OF GOODS**

Bid No. for (Bid/Contract/Title)

No.	Specified Terms and Conditions	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here all major commercial terms and conditions specified in the bidding document; e.g., performance security, terms of payment, Delivery and Completion Period)</i>	<i>(Section and Clause No. of bidding documents)</i>			
1.	Performance Security (i) Amount: 10% of the Contract Price (ii) Valid up to the date of completion of the Supplier's performance obligations, including any warranty obligations.	Section VII, Clause 18.1; Section VIII, GCC 18.1 Section VII, Clause 18.4 Section VIII, GCC 18.4	C C	C C	C C
2.	Delivery/Contract Completion Period: 10 months	Section VI, Item 2	C	NC ¹	C
3.	Terms of Payment	Section VIII, GCC 16.1	C	C	NC ²
	Remarks			¹ For purposes of bid evaluation, Bid Price shall be adjusted upwards pursuant to the provision in Criterion 4.2, Section III: Evaluation and Qualification Criteria of the Bidding Document.	² For purposes of bid evaluation, Bid Price shall be adjusted upwards pursuant to the provision in Criterion 4.1, Section III: Evaluation and Qualification Criteria of the Bidding Document.

C = Complied
NC = Not Complied

Appendix 5

**TABLE OF SALIENT FEATURE OF BIDS
(COMMERCIAL TERMS AND CONDITIONS) – CIVIL WORKS**

Bid No. for (Bid/Contract/Title)

No.	Specified Terms and Conditions	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here all major commercial terms and conditions specified in the bidding document; e.g., performance security, terms of payment, Delivery and Completion Period)</i>	<i>(Section and Clause No. of bidding documents)</i>			
1.	Performance Security (i) Amount: 10% of the Contract Price (ii) Valid up to the issue of the Performance Certificate	Section 8: Particular Conditions of Contract, Part A: Ref. GCC 4.2 Section 7: General Conditions of Contract, Sub-Clause 4.2	C C	C C	C C
2.	Contract Completion Time (24 months)	Section 8: Particular Conditions of Contract, Part A, Ref: GCC 1.1.3.3	C	NC ¹ (30 months)	C
	Remarks			¹ Bid declared Non-responsive as the provision in the Bidding Document (ITB 13, Section 2) stipulates that alternative time for completion is not permitted.	

C = Complied
NC = Not Complied

Appendix 5

**TABLE OF SALIENT FEATURE OF BIDS
(COMMERCIAL TERMS AND CONDITIONS) – PLANT-DESIGN-SUPPLY-INSTALL**

Bid No. for (Bid/Contract/Title)

No.	Specified Terms and Conditions	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Bidder No. 3
	<i>(List here all major commercial terms and conditions specified in the bidding document; e.g., performance security, terms of payment, Delivery and Completion Period)</i>	<i>(Section and Clause No. of bidding documents)</i>			
1.	Performance Security (i) Amount: 10% of the Contract Price (ii) Valid up to the date of Operational Acceptance of the Facilities	Section 8, Clause 13.3.1 Section 7, Clause 13.3.3	C C	C C	C C
2.	Contract Completion Time: (36) months	Section 8, Clause 8.2	NC ¹ (40 months)	C	C
	Remarks		¹ For purposes of bid evaluation, the Bid Price shall be adjusted upwards pursuant to the provision in Criterion 1.2.2 of Section 3: Evaluation and Qualification Criteria of the Bidding Document.		

C = Complied
NC = Not Complied

Appendix 5A

TABLE OF SALIENT FEATURES OF BIDS (TECHNICAL REQUIREMENTS)

Bid No..... for.....
(Bid/Contract/Title).....

No.	Specified Terms and Conditions	Bidding Documents Reference	Bidder No. 1	Bidder No. 2	Etc.
	<i>[List here the scope of supply and all technical and performance features of equipment and materials in the scope]</i>	<i>[Section and Clause No. of Bidding documents]</i>			
1.	Scope of Supply	Section VI & Supply Schedule	C	PC Failure to quote item 5, inland transportation	
2.	Pumps and Motors (a) Pumps (centrifugal) <ul style="list-style-type: none"> (i) Capacity - lps (ii) Rating-kW (iii) Head-meter (iv) Efficiency, (v) Materials - Body Shaft Impeller (vi) Rpm etc. (b) Prime mover <ul style="list-style-type: none"> (i) Electric Motor (ii) Rating-kW (iii) Voltage (iv) Efficiency (v) Cooling system, etc. [EA to indicate the detailed requirements indicated in the attached Bidding Document.]	Section VI, Item 3: Technical Specifications	C [EA to give details from the Bidder's Bid Proposal]	C	
	Remarks		No financial adjustment is required.	Financial adjustment is required.	

C = Complied
PC = Partially Complied
NC = Not Complied

Appendix 6

TABLE OF BID PRICE COMPARISON (SUPPLY CONTRACT)

Bid No for (Bid/Contract/Title).....

(Currency of Bid Comparison)

Package No.	Particular	Bidder No. 1	Bidder No. 2	Bidder No. 3	Etc.
I	Part A. (Supply and Installation of Pump Station No. 1)				
	1. Pumps				
	2. Motors				
	3. Pipes, Valves, and Fittings				
	4. Etc.				
	CIF/EXW Inland Transportation Installation				
	Sub-Total Part A				
	Part B. Adjustments.				
	(a) Scope of Supply				
	(b) Technical Compliance				
	(c) Specified technical Evaluation Factors				
	(d) Terms of Payment				
(e) Delivery or Work Schedule					
(f) Etc.					
	Sub-Total Part B				
	TOTAL EVALUATED BID PRICE PACKAGE I				
	Application of Margin of Preference (See attachment to this Appendix)				

¹ Use a table for each package if necessary.

Appendix 6A

TABLE OF BID PRICE COMPARISON (CIVIL WORKS CONTRACT)

Bid No..... for..... (Bid/Contract/Title).....

(Currency of Bid Comparison)

Section	Title of Sections	Agency's Estimate	Bidder No. 1	Bidder No. 2	Bidder No. 3	Etc.
1.	Mobilization					
2.	Securities and Insurance					
3.	Earthworks					
4.	Piling and Foundation					
5.	Concrete Works					
6.	Metal Work					
7.	Electro Mechanical Work					
8.	Drainage Structures					
9.	Etc.					
	Sub-Total Part A					
	Adjustments					
	(a) Payment Terms					
	(b) Construction Period					
	(c) Liquidated Damages					
	(d) Etc.					
	Sub-Total Part B					
	TOTAL EVALUATED BID PRICE					
	Application of Margin of Preference (See attachment to this Appendix)					

**Appendix 6
Attachment 1**

**Application of Margin of Preference
(Goods)**

	Bidder No. 1 (Group A Bid)	Bidder No. 3 (Group C Bid)
Evaluated Bid Price	\$111,000,000.00	\$10,500,000.00
15% of the Imported Goods (CIF/CIP Price) Offered	-	\$ 1,575,000.00
Total Evaluated Bid Price (With Margin of Preference)	\$111,000,000.00	\$12,075,000.00

**Application of Margin of Preference
(Civil Works)**

	Bidder No. 1 (Group A Bid) Domestic Contractor Eligible for the Preference	Bidder No. 2 (Group B Bid) Other Contractor
Evaluated Bid Price	\$12,575,000.00	\$11,105,000.00
7.5% of the Bid Price ¹	-	\$ 832,875.00
Total Evaluated Bid Price (with Margin of Preference)	\$12,575,000.00	\$11,937,875.00

¹ Bid Price of Bidder No. 2 is \$11,000,000.00.

Appendix 6B

**TABLE OF BID PRICE COMPARISON
(PLANT-DESIGN-SUPPLY-INSTALL)**

Bid No. For Bid/Contract/Title

Schedule No.	Title of Schedule	Executing Agency's Estimate	Bidder No. 1	Bidder No. 2	Bidder No. 3
1	Part A: Bid Price				
	Plant Supplied from Abroad				
2	Spare Parts Supplied from Abroad				
	Plant Supplied from Within the Employer's Country				
3	Spare Parts Supplied from Within the Employer's Country				
	Design Services				
4	Installation and Other Services				
	Sub-Total (1-4)				
	Part B: Adjustments				
	(a) Contract Completion Time				
	(b) Quantifiable Deviations and Omissions				
	(c) Operating and Maintenance Costs				
	(d) Functional Guarantees of the Facilities				
	(e) Work, Services to be Provided by the Employer				
	Sub-Total (a to e)				
	Total Evaluated Bid Price (Part A + Part B)				
	Application of Margin of Preference (see Attachment 1 to this Appendix)				

**Appendix 6B
Attachment 1**

**Application of Margin of Preference
(Plant-Design-Supply-Install)**

No.	Item	Bidder No. 1 (CIF/CIP)	Bidder No. 2 (CIF/CIP)	Bidder No. 3 (CIF/CIP)
1	Plant Supplied from Abroad			
2	Spare Parts Supplied from Abroad			
3	Total Price (1 + 2)			
4	15% of the Total Price			

Final Evaluated Bid Price (With Margin of Preference)

		Bidder No. 1	Bidder No. 2	Bidder No. 3
1	Evaluated Bid Price ¹			
2	15% of the Total Price for Plant and Spare Parts Supplied from Abroad			
3	Final Evaluated Bid Price (1 + 2)			

¹ Inclusive of Bid Prices (Plant and Spare Parts Supplied from Abroad, Plant & Spare Parts Supplied from Within the Employer's Country, Design Services, Installation and Other Charges), and Adjustments on the Bid Prices based on the evaluation factors stipulated in the Section on Evaluation and Qualification Criteria of the bidding document.

PART II

EXAMPLES OF BID EVALUATION

EXAMPLE 1

BID EVALUATION REPORT

SUPPLY CONTRACT

In order to protect the autonomy of the borrowers, executing agencies, and bidders concerned, references to the name of the borrower, the borrower's country and currency, the executing agency, the name and address of the executing agency and the project site, the names of the bidders and bidders' representatives, the number and title of the ADB loan have been deleted.

The borrower, the borrower's country, the executing agency, the name and address of the executing agency and the project site, the names of bidders' representatives, and the number and title, of the ADB loan have been replaced with combinations of the letter "x", the name of the borrower's currency has been referred to as "Local Currency (LC)", and the bidders have been identified by number and referred to as "Bidder No. 1", "Bidder No. 2", etc.

LETTERHEAD OF THE EXECUTING AGENCY

Our Reference; xxxx/xxxx/xxx (07)

7 April 2007

Manager
Energy Division, EARD
Asian Development Bank
6 ADB Avenue,
Mandaluyong City 1550, Philippines

Subject: Loan No. xxxx-xxx: xxxxxx
Award of Contract for The Supply of Ammonia Distillation and
Absorption Unit Bid No. 05/06 (ICB)

Dear Sir,

In compliance with the requirements of the Loan Agreement, we are submitting herewith three copies (3) of the Bid Evaluation Report for The Supply of Ammonia Distillation and Absorption Unit, Bid No. 05/06 (ICB) for the ADB's review and approval.

We would like to mention that the award of the Contract as recommended in the Report has been approved by the Chairman of xxxxxx on 3 April 2007. As you will note, the validity of the bids expires on 20 May 2007. We would therefore, appreciate receiving your approval of the recommendations made in the Report in time to advise the successful bidder before the expiration of the bids.

Sincerely yours,

Signed
General Manager
xxxxxxxxxxxxxx

Attachment: Three copies of Report

XXXXXX

BID EVALUATION REPORT

FOR

SUPPLY OF AMMONIA DISTILLATION & ABSORPTION UNIT

BID No. 05/06 (ICB)

ADB LOAN No. XXXX-XXX

30 MARCH 2007

Contents

(SUPPLY CONTRACT)

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1. INTRODUCTION

1.1 General

The xxxxxx has received a loan from the Asian Development Bank (ADB) to finance the cost of implementing the Project. It is intended that part of the proceeds of this loan will be applied to payment for the supply of equipment and services for the renovation and upgrading of the Ammonia Distillation and Absorption Unit of xxxxxx for which these bids were invited.

The Invitation for Bids was advertised in the 19 and 23 November 2006 issues of two local English language newspapers, xxxxx and xxxxxx and in the ADB website on 23 November 2006. The brief report on the advertising, which includes the names of the newspapers, the dates of the advertisement was forwarded to the ADB under cover of xxxxxx's letter, dated 26 November 2006. The site visit and pre-bid meeting were held on 17 December 2006 at xxxxxx as stipulated in the bidding documents. Nine (9) potential bidders out of twelve (12) firms which purchased the bidding documents attended the pre-bid meeting. The minutes of the pre-bid meeting were prepared and sent to the firms who purchased the bidding documents. An addendum to the bidding documents was issued to all firms which purchased the bidding documents on 20 December 2006, to clarify certain aspects of the technical requirements of the bidding documents.

1.2 Submission of Bids

The deadline for the submission of bids was not extended and the receipt of bids by the xxxxx at the Administrative Division of xxxxxx was closed at 10:30 AM local time on 21 January 2007 as scheduled. Out of twelve. firms which purchased the bidding documents, six (6) bidders submitted bids.

1.3 Bid Opening

Bids were opened as scheduled in the bidding documents, at 11:00 AM on 21 January 2007 at the meeting room, second floor of the Administration Building by the Bid Opening Committee in the presence of representatives of bidders. Each bidder's name, bid price, discount or alternative offer, if any, and the presence or absence of the requisite bid security and its amount were announced and recorded. The Record of Bid Opening was prepared soon after the bids were announced and a copy of the Record of Bid Opening was furnished to the ADB under cover of xxx's letter, dated 24 January 2007. A copy is attached as **Appendix 1**.

1.4 Basic Data and Exchange Rates

The exchange rates used for the evaluation were the selling rates officially prescribed for similar transactions by the National Bank on 21 January 2007 (i.e. the date of bid opening). Basic information pertaining to the bidding was summarized and presented in the **Appendix 2**.

1.5 Bid Evaluation Committee

A Bid Evaluation Committee comprising four senior officers of xxxxxx was established by the Chairman of xxxxxx. Assistance was provided by the staff of the Administrative Division of the xxxxxx. The Bid Evaluation Committee members were:

- | | | |
|-----|------------------|--|
| (1) | Chairman | General Manager; xxxxxx |
| (2) | Member | Manager, Operations, xxxxxx |
| (3) | Member | Director, Planning Department, xxxxxx. |
| (4) | Member/Secretary | Manager, Finance and Marketing, xxxxxx |

The Committee's decisions were made on the basis of unanimous views and whenever a unanimous decision could not be reached on certain issues, these issues were brought to the attention of the Chairman of xxxxxx for a decision.

2. EXAMINATION FOR COMPLETENESS OF BIDS

2.1 List of Bidders

The names of the bidders, their nationalities, the capacity in which they submitted their bids, the source of the goods and the domestic preference category claimed are shown in the following table.

No.	Name	Bidders		Source of Goods	Domestic Preference Category
		Nationality	Capacity		
1.	Bidder No. 1	xxxxxx	Importer	Domestic & xxxxxx	Category II
2.	Bidder No. 2	xxxxxx	Manufacturer	xxxxxx	Category III
3.	Bidder No. 3	xxxxxx	Manufacturer	xxxxxx	Category III
4.	Bidder No. 4	xxxxxx	Exporter	xxxxxx	Category III
5.	Bidder No. 5	xxxxxx	Manufacturer	xxxxxx	Category III
6.	Bidder No. 6	xxxxxx	Manufacturer	xxxxxx	Category III

2.2 Bid Documents

The bids submitted were examined to verify that the bidders had submitted all the documents and information required by the bidding document. The following documents, were examined:

- (i) Form of Bid and Price Schedules;
- (ii) Bid Security;
- (iii) Joint Venture Agreement or Letter of Intent to Enter into an Agreement, if required;
- (iv) Propriety of Signature and Power of Attorney;
- (v) Documents establishing the eligibility of bidders and goods;
- (vi) Documents required to assess the qualification of bidders and their manufacturers; and
- (vii) Documents required to establish the goods' conformity with the bidding documents.

The results of checking for completeness of bid documents are presented in Table 1: Examination of Completeness of Bid Documents, attached as Appendix 3.

2.3 Propriety of Signature and Power of Attorney

All bid documents were signed in accordance with the Instructions to Bidders and corrections were also initialed by the authorized person. The power of attorney for the signatories of all bids were acceptable. The results of these examinations are included in Table 1, **Appendix 3**.

3. DETERMINATION OF SUBSTANTIVE RESPONSIVENESS OF BIDS

3.1 Eligibility of Bidders and Goods

In Clauses 4 and 5 of the Instructions to Bidders of the bidding documents it was specified that the bidder, and the goods and the services to be supplied shall be from an eligible source country of ADB. All bidders submitted certifications and necessary documentation which indicated that they are nationals of an eligible member country of ADB, and offered goods and services originating in an eligible member country of ADB (See **Appendix 6**, Table 4 Substantive Responsiveness of Bids to Commercial Terms).

3.2 Bidders' Qualifications

The bidding documents in Clause 19 of the Instructions to Bidders, required that each bidder submits with its bid such evidence of its technical capacity and financial capability by completing properly the forms provided with the bidding documents. All bidders submitted the forms with their bids. The detailed review of the bidders' information provided in these forms and further clarifications requested from the bidders showed that all bidders are qualified financially and technically to perform the Contract. The results of the detailed review are summarized in Table 2: Evaluation of Bidders' Qualifications, and attached as **Appendix 4**.

3.3 Arithmetic Check and Corrections

Each bid was checked for arithmetic errors in accordance with the provisions of the bidding documents. Corrections were necessary only in the bid of Bidder No. 6. The total bid price was increased by S\$21,588.00. Table 3: Summary of Bid Prices (Arithmetic Corrections and Corrected Bid Prices), is attached as **Appendix 5**. The arithmetic check of Bidder No. 2 was not carried out as the bid was disqualified because of reasons discussed in the following paragraph 3.4.1.

3.4 Compliance with Commercial Terms and Conditions

3.4.1 Bid Validity and Bid Security

A bid validity period of at least 120 days from the date of bid opening was specified in the bidding documents. All bidders except Bidder No. 2 offered a bid validity period as required. However, Bidder No. 2 offered a bid validity period of only 60 days and stated in the covering

letter that further extension may be considered upon request. All bidders submitted bid securities in the form of an ADB guarantee and fulfilled the requirements in the amount, terms and period of validity except Bidder No. 2. The amount of the bid security of Bidder No. 2 was equivalent to 1.29% of its total bid price and did not satisfy the specified requirements of a minimum of 2% of the bid price.

After due consideration of all relevant factors, in particular fairness to all other bidders who complied with the requirements, it was concluded that the bid of Bidder No. 2 should be rejected as such deviations in bid validity and bid security are considered as major.

3.4.2 Time for Completion/Contract Execution Schedule

The contract execution schedules and sequence of delivery of major units of plant to be supplied were evaluated in detail and compared with the requirements of the bidding documents. The contract execution schedules submitted by the bidders were generally in order and complied with the execution schedule of the bidding documents. A number of minor changes will be necessary (see Appendix 11). Such changes were considered minor and should be finalized at contract negotiations with the successful bidder.

3.4.3 Terms of Payments

All bidders accepted the terms and conditions of the bidding documents with respect to payment and they also accepted the fixed sum without price adjustment provision. The bidding documents specified that all payments will be made through an irrevocable letter of credit following the ADB commitment procedure. All accepted these arrangements, except that Bidder No. 3 requested a "confirmed" irrevocable letter of credit. Upon clarification, the bidder replied that the additional cost for confirmation of the letter of credit will be borne by the bidder. The request was considered reasonable and, therefore, acceptable if the bidder is the successful bidder.

3.4.4 Deviations or Reservations to Commercial Conditions

None of the bids contained substantial reservations to the major commercial conditions of the bidding documents. All bidders accepted the provisions for liquidated damages, functional guarantees and corresponding adjustments, performance security, warranty requirements and after sales service.

3.5 Technical Requirements

3.5.1 Technology

The Ammonia Distillation Columns and Absorption Towers, being high steel structures, were considered as the two main important items of equipment for the project, and special attention has been given in the evaluation with respect to design, quality, reliability and safety. The evaluation showed that the manufacturers of all bidders fulfilled the required standards satisfactorily.

3.5.2 Compliance with Technical Specifications

All the remaining five (5) bidders satisfactorily complied with the total scope of the contract and generally met the major requirements of the specifications. Bidder No. 6 did not mention clearly the continuous operating period of the Ammonia Absorption Tower. Clarification was requested and the bidder submitted a guarantee for a continuous period of 17–14 months which satisfied the specified period of a minimum of 12 months. The Table of Substantive Responsiveness to the Major Technical Requirements of the bidding documents was prepared and submitted as **Appendix 7**.

4. DETAILED EVALUATION OF BIDS

4.1 Selection of Bids For Detailed Evaluation

As discussed in Section 3 above, all bids, except the bid of Bidder No. 2, have been determined as substantially responsive to the bidding documents. Their ranking in order of price is summarized as follows:

Bidder No.	Name of Bidder	Corrected Bid Price (LC)	Ranking	Variation
3	Bidder No. 3	12,337,197.0	(1)	–
1	Bidder No. 1	12,689,200.0	(2)	2.85%
5	Bidder No. 5	13,200,000.0	(3)	6.99%
6	Bidder No. 6	13,704,803.0	(4)	11.08%
4	Bidder No. 4	15,656,234.0	(5)	26.90%

As the variation in price between the first four bidders is only 11.08 percent and there is a large variation between the fourth and fifth bidder, it was decided to evaluate only the four lowest bids. It was considered unlikely that the bid of Bidder No. 4 would become the lowest evaluated substantially responsive bidder due to the price difference and, as the highest Category III bidder, had no advantage in the application of domestic preference. The bid of Bidder No. 4 would only be evaluated if the adjustments made to the four lowest bids resulted in their evaluated prices being higher than the price of Bidder No. 4.

4.2 Evaluation for Commercial Terms and Conditions

All four bidders selected for detailed evaluation accepted the commercial terms and conditions of the bidding documents. There were no deviations to payment terms, liquidated damages provisions, performance security, and functional guarantees, and their corresponding adjustments in case of failure to meet these functional guarantees. Thus, no price adjustments were required in this respect. The detailed evaluation of bids of compliance to the commercial terms

and conditions of the bidding documents was summarized in Table 6: Salient Features of Bids (Commercial Terms), and attached as **Appendix 8**.

4.3 Evaluation for Technical Requirements

The scope of supply, technical information and technical data submitted by the bidders were scrutinized in detail and a comparison was carried out with the technical requirements of the bidding documents. All four bidders submitted substantially completed information and generally satisfied the technical requirements of the bidding documents. The Table of Salient Features of Bids to the Technical Requirements was prepared and presented as **Appendix 9**. The findings of the scrutiny are briefly explained below.

(a) Bidder No. 1

The bidder did not clearly indicate in its bid that allowance had been made for the technical services to be provided for design and technical documentation of the plant, and clarification was requested from the bidder. The bidder explained at the clarification meeting that the cost of detailed design and preparation of technical documents was included in the bid price. The explanation at the clarification meeting was confirmed in writing.

It was considered that the bidder's clarification that the cost of the design and technical documentation was included in the price is acceptable for the following reasons.

- although the bidding documents required that the bidder shall include the cost of design and technical documentation in the bid, the price schedule did not include a separate bid item; and
- all other bidders also stated that the cost for this technical service was included in the bid price of equipment.

It was, therefore, concluded that this should not be considered as a missing item and no price adjustment was made.

(b) Bidder No. 3

The bidder stated clearly in the bid that the costs of design and technical documentation were included in the unit bid prices of the respective equipment. However, the costs for (i) the specified spare parts, (ii) the special tools, and (iii) technical services for installation etc., were not included in the bid price but the bidder had submitted detailed lists and detailed costing of these items with its bid.

- (i) Spare Parts as specified in the bidding documents.

The bidder submitted the list of spare parts with itemized rates together with its bid. The cost of spare parts quoted was US\$25,650.00 (LC42,322.50 equivalent) and this amount was added to the bid price for comparison.

(ii) Special Tools

The bidder submitted a detailed list of special tools that were considered necessary for the operation and maintenance of the plant. The itemized unit rates were also provided and it was stated in the covering letter that increase, decrease or deletion to the recommended list should be made according to the Purchaser's requirements. The list was reviewed and it was concluded that the proposed special tools will be required for proper operation and maintenance of the plant. The bidder's quoted price for the special tools was US\$9,550.00 (LC15,758.50 equivalent); this amount was added to the bid price for comparison.

(iii) Technical Services for Installation, Testing & Commissioning and Training

As discussed above, the bidder submitted a separate proposal for these technical services. The information provided by the bidder was quite adequate for evaluation. It was considered that the level of proposed technical services to be provided was in line with the requirements specified in the bidding documents. The experience and technical background of the proposed personnel were acceptable. Therefore, the quoted price of US\$56,490.00 (LC93,208.50) was considered reasonable and the amount was added to the bid price.

(c) Bidder No. 6

The bidder did not indicate nor provide the list of special tools required for the offered plant. During the bid clarification meeting, the bidder admitted its failure to submit the list of special tools. The bidder confirmed this matter in writing and later submitted a list of special tools. The bidder also stated in the letter that although the list was not included in the bid documents, the review of their records showed that the approximate cost for the special tools was already included in the bid price of equipment and the special tools will be supplied without increasing the bid price.

The failure of the bidder to submit a list of special tools with the bid was considered as an omission. Therefore, the cost of LC18,500.00 estimated by the consultant was added to the bid price for bid comparison only.

4.4 Clarifications

Throughout the evaluation, bidders were requested to provide clarifications in order to establish that the equipment and services to be supplied were in accordance with the provisions of the bidding documents. Clarifications which may have led to a change in the substance of a bid were not requested. The requests for clarifications and the replies from the bidders were in writing. All correspondence was properly recorded and filed together with the respective original bid.

5. COMPARISON OF BIDS AND DETERMINATION OF THE LOWEST EVALUATED BID

5.1 Lowest Evaluated Bid

The arithmetically corrected bid prices and adjusted prices for compliance with the technical requirements as discussed in paragraph 4.3 above were shown in Table 8: Bid Prices Comparison with Price Adjustments, and attached to this Report as **Appendix 10**. As the comparison shows, the lowest evaluated substantially responsive bid is that submitted by Bidder No. 3, in the contract amount as shown below:

(i)	Supply of Main Equipment and Materials:	US\$7,477,089.00
(ii)	Spare Parts as Specified:	US\$ 25,650.00
(iii)	Special Tools	US\$ 9,550.00
(iv)	Technical Services for Installation etc.	US\$ 56,490.00
	Total	US\$7,568,779.00
		(or LC 12,488,485.00 equivalent)

5.2 Domestic Preference Scheme

Bidder No.1 was classified as a Group B bidder as some of the goods to be provided under the contract were domestic goods but the total domestic value added to the total schedule of goods did not equal at least 30 percent. Bidders Nos. 3, 5 and 6 offered totally imported goods and were, therefore, classified as Category III bidders.

The domestic preference scheme is applied as follows:

- (i) if the lowest evaluated bid is from Group A or Group B, it will be selected for award of contract; and
- (ii) if the lowest evaluated bid is from Group C, it will be further compared with the lowest evaluated bid from Group A by adding 15 percent of the CIF or CIP bid price of such goods. If the lowest evaluated bid from Group A is then determined to be the lower, it will be selected for award of contract; if not, the lowest evaluated bid front Group C will be selected for award.

As none of the bidders were classified as Group A, the domestic preference scheme allows the award of contract to be made to the lowest evaluated bidder from either Group B or Group C.

5.3 Reasonable Price of the Lowest Evaluated Bid

The estimate of the contract price prepared by the consultant as part of the improvement program, based on the prices prevailing in 2006, was LC12,136,000.00 including technical services and spare parts for operation and maintenance for 2 years. The lowest evaluated bid exceeds that estimate by less than 3 percent, a difference roughly equivalent to the price increase in titanium in the world market. Also, considering the stringent requirements of functional guarantees of the plant specified in the bidding documents, it was considered that the price quoted by the Bidder No. 3, the lowest evaluated bid, was reasonable.

6. CONCLUSIONS AND RECOMMENDATIONS

Based on the detailed evaluation and findings presented in this report, it was concluded that Bidder No. 3, had submitted the lowest evaluated substantially responsive bid and the Contract should be awarded at the bid price of US\$7,568,779.00, equivalent at the rate of exchange used for the comparison of bids to LC12,488,485.00. It is recommended that the Asian Development Bank approve the award and notify us of its approval in time to issue the Notice of Award to the successful bidder before expiration of the bid validity on 20 May 2007.

Appendix 1
Page 1 of 3

RECORD OF BID OPENING

Loan No. xxxx-xxx
Bid No. 05/06

Project Title : xxxxxx
Bid Title : Supply of Ammonia Distillation
and Absorption Unit

1. The following bids were received by the closing deadline fixed on 21 January 2007 at 10:30 hrs and were publicly opened and read at 11.00 hrs on the same date.

Bid No.	Name of Bidder Nationality	Bid Security Amount	Bid Price		Discounts Offered	Signature
			Foreign Currency	Local Currency (LC)		
1	Bidder No. 1	LC 295,000.00 (2.32%)	US\$6,152,339.00	2,537,840.00	–	Signed
2	Bidder No. 2	LC195,000.00 (1.29%)	US\$7,785,297.00	2,266,860.00	–	Signed
3	Bidder No. 3	US \$175,000.00 (2.34%)	US\$7,477,089.00 ¹	–	–	Signed
4	Bidder No. 4	Y21,500,000.00 (2.16%)	Y997,212,350.00	–	–	Signed
5	Bidder No. 5	Y18,200,000.00 (2.16%)	Y840,764,330.00	–	–	Signed
6	Bidder No. 6	S\$255,000M (2.12%)	S\$12,000,257.00	–	–	Signed

¹ The bidders submitted the costs for (i) the specified spare parts, (ii) the special tools and (iii) technical services for installation, testing and commissioning and training, separately as follows:

(i) specified spare parts	US\$25,650.00
(ii) special tools	US\$ 9,550.00
(iii) technical services for installation	US\$56,490.00

Appendix 1
Page 2 of 3

2. The following bidders' representatives attended the public opening of bids and a copy of the attendance sheet is attached as an annexure of this record

Serial No.	Name	Designation	Bidding Company Represented
1.	Mr. xxxxxx	Manager Domestic Branch	Bidder No. 4
2.	Mr. xxxxxx	Deputy Director International Marketing	Bidder No. 1
3.	Mr. xxxxxx	Local Representative	Bidder No. 5
4.	Mr. xxxxxx	Chief Mechanical Engineer	Bidder No. 2
5.	Mr. xxxxxx	Deputy Director South East Asia Region	Bidder No. 3
6.	Mr. xxxxxx	Assistant Director Export Division	Bidder No. 6

3. Matters transpiring during the opening of bids.

The representative of Bidder No. 3, requested the Bid Opening Committee (i) to announce that there was no discount offered by any bidder and (ii) to confirm the amount of bid security and the bid price of Bidder No. 2 because the bid security amount seemed to be less than 2% of the bid price as specified in the bidding documents. The Chairman of the Committee confirmed that (i) there was no discount offered by any bidder and (ii) the announced amount of the bid security and the bid price of Bidder No. 2 were correct.

4. Reading and signing of documents ended at 12:00 hrs.

Signed
Member
Manger, Operations

Signed
Chairman
General Manager

Signed
Member
Director, Planning Dept.

Appendix 1
Page 3 of 3

ATTENDANCE SHEET AT OPENING OF BIDS

Loan No. xxxxx
Bid No. 05/06

Project Title : xxxxxx
Bid Title : Supply of Ammonia Distillation and
Absorption Unit

Place : Meeting Room
Second Floor,
Administration Building,
xxxxxx

Date : 21 January 2007 Time 11:00 hrs

The following bidders' representatives attended the public opening of bids.

Sr. No.	Bidders	Representative		Signature
		Name	Designation	
1.	Bidder No. 4	Mr. xxxxxx	Manager, Domestic Branch	Signed
2.	Bidder No. 1	Mr. xxxxxx	Deputy Director	Signed
3.	Bidder No. 5	Mr. xxxxxx	Local Representative	Signed
4.	Bidder No. 2	Mr. xxxxxx	Chief Mechanical Engineer	Signed
5.	Bidder No. 3	Mr .xxxxxx	Deputy Director South East Asia Region	Signed
6.	Bidder No. 6	Mr. xxxxxx	Asst. Director	Signed

Appendix 2

BASIC DATA SHEET

1.	Project Title	xxxxxx
2.	Loan Number	xxxx xxx
3.	Bid Title	Supply of Ammonia Distillation and Absorption Unit, xxxxxx
4.	Bid Number	05/06
5.	Estimated Value	Local Currency 12,136,000.00
6.	Date Invitation for Bids issued	19 November 2006
7.	Mode of Procurement	International Competitive Bidding
8.	Bid Closing Date and Time	10:30 hrs on 21 January 2007
9.	Bid Opening Date and Time	11:00 hrs on 21 January 2007
10.	Number of Bids Received	Six (6) Bids
11.	Bid Validity Expires	20 May 2007
12.	Bid Security Amount	Not less than 2% of the Bid Price
13.	Bid Security Validity Expires on	17 June 2007
14.	Date for Determining Applicable Exchange Rates	21 January 2007 (Date of Bid Opening)
15.	Exchange Rates for Evaluation	US Dollar 1 = LC 1.65 Japanese Yen 100 = LC 1.57 Singapore Dollar 1 = LC 1.14

Source: The Selling exchange rates of the National Bank of xxxxxx

Appendix 3

TABLE 1: EXAMINATION OF COMPLETENESS OF BID DOCUMENTS

Item	Description	Bidder No.					
		1	2	3	4	5	6
1	Bid Documents						
1.1	One Original and Two Copies	Y	Y	Y	Y	Y	Y
1.2	Form of Bid	Y	Y	Y	Y	Y	Y
1.3	Price Schedules	Y	Y	Y	Y	Y	Y
1.4	Bid Security	Y	Y	Y	Y	Y	Y
1.5	Schedules of Particular Information						
	(1) Contract Execution Schedule	Y	P	Y	P	Y	Y
	(2) Financial Data	Y	P	Y	Y	Y	Y
	(3) Technical Data	Y	Y	y	P	Y	Y
	(4) Manufacturer's Organization						
	(5) References from Previous Employers	Y	Y	Y	Y	Y	Y
1.6	Drawings and Documents to be submitted with Bid	P	P	Y	P	Y	Y
1.7	Joint Venture Agreement or Formal Intent to Enter into an Agreement	NA	Y	NA	NA	NA	NA
2	Propriety of Signature and Completeness	Y	Y	Y	Y	Y	Y
2.1	Power of Attorney	Y	Y	Y	Y	Y	Y
2.2	Bid Form and Price Schedules, properly signed or not	Y	Y	Y	Y	Y	Y
2.3	Completeness of Bids	Y	Y	Y	Y	Y	Y

Y = YES

P = PARTIAL

Provide details if "P", "N" or "NA"

N = NO

NA = NOT APPLICABLE

Appendix 4

TABLE 2: EVALUATION OF BIDDERS' QUALIFICATIONS

Bidder No.	Qualification Criteria								Remarks
	Pending Litigation:	Turnover	Net Worth	Cash Flow Capacity	Production Capacity	Technical Experience			
	Must not represent more than 50% of Bidder's Net Worth	\$2.0 Million	Must be Positive for the Last Three Years	\$3.0 Million	200 units/month	Goods offered been in Production for at least Three Years			
1	No Pending Litigation	Pass \$2.3 Million	Pass +5.0 Million	Pass \$4.0 Million	Pass 300 units/month	Pass 4 Years	Pass	Qualified	
2	No Pending Litigation	Pass \$2.2 Million	Pass +3.8 Million	Pass \$3.5 Million	Pass 250 units/month	Pass 3 Years	Pass	Qualified	
3	No Pending Litigation	Pass \$3.0 Million	Pass +2.9 Million	Pass \$4.5 Million	Pass 350 units/month	Pass 5 Years	Pass	Qualified	
4	Pending Litigation is equivalent to 10% of Net Worth	Pass \$4.0 Million	Pass +8.8 Million	Pass \$6.0 Million	Pass 355 units/month	Pass 5 Years	Pass	Qualified	
5	Pending Litigation is equivalent to 15% of Net Worth	Pass \$3.5 Million	Pass +7.5 Million	Pass \$5.0 Million	Pass 350 units/month	Pass 4 Years	Pass	Qualified	
6	No Pending Litigation	Pass \$3.0 Million	Pass +3.2 Million	Pass \$4.0 Million	Pass 300 units/month	Pass 4 Years	Pass	Qualified	

Appendix 5

**TABLE 3: SUMMARY OF BID PRICES
(ARITHMETIC CORRECTIONS AND CORRECTED BID PRICES)**

Bidder No.	Bid Price at Opening		Discounts		Arithmetic Correction		Corrected Bid Price		Total Corrected Bid Price		Ranking
	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	In US Dollar Equivalent ¹	
1	(1)	(1)	(2)	(2)	(3)	(3)	(4) = 1 - 2 ± 3	(4) = 1 - 2 ± 3			
2											
3											
4											
5											
6											

¹ Based on the Selling Exchange Rate:

Appendix 6

**TABLE 4: SUBSTANTIVE RESPONSIVENESS OF BIDS
(COMMERCIAL TERMS)**

Serial No.	Requirements	Bidding Doc. Reference	Bidder No.					
			1	2	3	4	5	6
1.	Power of Attorney	Section I Clause 22 Section II, ITB. 22.1	C	C	C	C	C	C
2.	Signature on Bid Form and Price Schedule	“	C	C	C	C	C	C
3.	Joint Venture Agreement or Letter of Intent to Enter into an Agreement	Section I, GC 4.1	NA	C	NA	NA	NA	NA
4.	Eligibility							
	(a) Bidder	Section I, Clause 4 ⁴	C	C	C	C	C	C
	(b) Goods and Services	Section I, Clause 5	C	C	C	C	C	C
5.	Bid Validity 120 days	Section I, Clause 20 Section II, ITB 20.1	C	NC ¹	C	C	C	C
6.	Bid Security	Section I, Clause 21 Section II, ITB 21.1	C	NC ²	C	C	C	C
	(a) Amount		C	NC ³	C	C	C	C
	(b) Validity		C	C	C	C	C	
	(c) Format and Terms		C	C	C	C	C	
7.	Fixed Price	Section I, Clause 14 Section II, ITB 14.7	C	C	C	C	C	C
8.	Terms of Payment	Section VIII, Clause 16.1	C	C	C	C	C	C
9.	Functional Guarantees	Section VI	C	C	C	C	C	C
	CONCLUSION		R	NR	R	R	R	R

C = Complied
R = Responsive

NC = Not Complied
NR = Not Responsive

NA = Applicable

¹ Bid Validity Period is 60 days instead of the 120 days specified in bidding documents.

² Bid Security Amount is only 1.29% instead of the minimum 2% specified.

³ Bid Security Validity is for 90 days instead of the 150 days specified.

⁴ See details in Attachment 1 to this Appendix.

**Appendix 6
Attachment 1**

DETAILS ON ELIGIBILITY OF BIDDERS

No.	Requirements	Bidding Documents Reference	Bidder No.1	Bidder No. 2	Bidder No. 3	Bidder No. 4	Bidder No. 5	Bidder No. 6
1	Single Entity or Joint Venture If Joint Venture, all partners must be jointly and severally liable.	Section I, Clause 4.1	Single Entity	Joint Venture Partners are jointly and severally liable.	Single Entity	Single Entity	Single Entity	Joint Venture Partners are jointly and severally liable.
2	Bidder must be a national of an eligible ADB member country. Proposed subcontractors or Suppliers must be nationals of an eligible ADB member country.	Section I, Clause 4.2	X (Country Name) X (all from eligible ADB member countries)	XX and XXX XXX (all from eligible ADB member countries)	XX XX (all from eligible ADB member countries)	XX XX (all from eligible ADB member countries)	XXXX XX (all from eligible ADB member countries)	XXX and XX XX (all from eligible ADB member countries)
3	Conflict of Interest	Section I, Clause 4.3	None	None	None	None	None	None
4	Declared Ineligible by ADB	Section I, Clause 4.4	No	No	No	No	No	No

5	Government-owned enterprise in Purchaser's country to be legally and financially autonomous, operate under commercial law, and not dependent agency of the Purchaser.	Section I, Clause 4.5	Not a govt. owned enterprise	Not a govt. owned enterprise	Not a govt. owned enterprise	Not a govt. owned enterprise	Not a govt. owned enterprise	Not a govt. owned enterprise
6	Not having been declared ineligible based on a United Nations resolution.	Section I, Clause 4.7	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible

Appendix 7

**TABLE 5: SUBSTANTIVE RESPONSIVENESS OF BIDS
(MAJOR TECHNICAL REQUIREMENTS)**

Serial No.	Requirements of Bidding Documents		Bidder No.				
	Work Item and Requirements	Ref: Section	1	3	4	5	6
1	Ammonia Distillation Column (i) Production Capacity Min. 700 t Soda Ash/d. Set (ii) Continuous Operating Period Min. 4 months	Section IV, Part 1	R	R	R	R	R
2	Ammonia, Absorption Tower (i) Production Capacity Min. 700 t Soda Ash/d Set (ii) Continuous Operating Time Min. 12 months	Section IV, Part 1	R	R	R	R	R
3	Prelimer (incl. First Stage Flash Evaporator)	Drawing 96J4- 1	R	R	R	R	R
4	Tail Ammonia Scrubber	Drawing 46J5 1	R	R	R	R	R
5	Refined Salting Liquor Exchanger (titanium plate)	Section IV, Part 1	R	R	R	R	R
6	Hot Ammoniated Brine Exchanger (titanium plate)	Section IV, Part 1	R	R	R	R	R
7	Ammoniated Brine Exchanger (titanium plate)	Seen,,, IV, Part 1	R	R	R	R	R
8	Ammoniated Brine Tank	Drawing 96J7	R	R	R	R	R
9	Waste liquor Carbonating Tower Plant Capacity Min. 300 m ³ /h. Set	Section IV, Part 1	R	R	R	R	R
10	Lime biln Gas Wash Tower dusting efficiency: 9.2%	Drawing 96J2	R	R	R	R	R
11	Flash Evaporator	Drawing 96J9	R	R	R	R	R
12	Carbonated Liquor Settling Tank	Drawing 96J10	R	R	R	R	R

R = Responsive

NC = Not Complied

FINDINGS : All five (5) bids are substantially responsive

¹ Continuous Operation Time is not mentioned clearly.

Appendix 8

**TABLE 6: SALIENT FEATURES OF BIDS
(COMMERCIAL TERMS)**

Serial No.	Requirements	Bidding Document Reference	Bidder No.			
			1	3	5	6
1	Power of Attorney	Section 1, Clause 22 Section 2, ITB 22.1	C	C	C	C
2	Signature of Documents	Section 1, Clause 22	C	C	C	C
3	Eligibility (a) Bidder (b) Manufacturer (c) Goods and Services	Section I, Clauses 4, 5	C C C	C C C	C C C	C C C
4	Bid Validity (120 days)	Section I, Clause 20 Section 2, ITB 20.1	C	C	C	C
5	Bid Security (a) Amount and Validity (b) Format and Terms	Section I, Clause 21 Section 2, ITB 21.1	C C	C C	C C	C C
6	Terms of Payment (a) Irrevocable 1.c (b) 10% Advance (c) 45% Upon Shipment (d) 25% Upon Arrival at Project Site (e) 10% Upon Completion of Installation (f) 10% Upon Completion of Warranty Period	Section VIII, Clause 16.1	C C C C C	C ^{*1} C C C C	C C C C C	C C C C C
7	Liquidated Damage, & Performance Security		C	C	C	C
8	Fixed Price	Section 1, Clause 14 Section 2, ITB 14.7	C	C	C	C
9	Functional Guarantees	Section VI	C	C	C	C
	FINDINGS		ND	ND	ND	ND

C = Complied NC = Not Complied
ND = No Deviation

*¹ Requested "Confirmed Irrevocable L/C" and the cost for confirmation, will be borne by the bidder.

Appendix 9

**TABLE 7: SALIENT FEATURES OF BIDS
(TECHNICAL REQUIREMENTS)**

Sr. No.	Specified Terms and Conditions	Bidding Document Reference	Bidder No. 1	Bidder No. 3	Bidder No. 5	Bidder No.6
1	Scope of Supply	Price Schedules and Section IV	C The technical service, for design and installation were not clearly mentioned	C Cost of spare parts, special tools, and technical services were shown separately	C	C Cost of special tools was not mentioned
2	Materials and Equipment	Section IV, Part 1	700-800t 700-800t 700-800t @ 99%	700-800t 700-800t @99%	700-800t 700-800T @99%	700-800t 700-800t Clarification will be required.
2.1	Ammonia Distillation Column (a) Production Capacity: 700-800t soda ash/day per set (b) Steam Consumption 1.4 per t of soda ash (steam pressure 0.2 MPA) (c) Continuous Operating Period Min. 4 months. (d) Construction Materials		<1.4t 4-5 months No deviation	<1.4t 4-5.5 months No deviation	<1.4t 4-6 months No deviation	<1.4t 4-5 months No deviation
2.2	Ammonia Absorption To, (a) Production Capacity: 700-800t soda ash/d set (b) Absorption Efficiency @ 99%		700-800t 700-800t @ 99%	700-800t 700-800t @99%	700-800T 700-800T @99%	700-800t 700-800t Clarification will be required.

Sr. No.	Specified Terms and Conditions	Bidding Document Reference	Bidder No. 1	Bidder No. 3	Bidder No. 5	Bidder No.6
	(c) Outlet Ammoniated Brine Composition TNH3 : 100–104 tt TCI 88.5-90.5tt (d) Temperature: 65↓ – 70↓C (e) Continuous Operating Period. Min 12 mths. (f) Continuous Materials		Complied Complied Complied 12–14 mths. As specified	Complied Complied Complied 12–13 mths. As specified	Complied Complied Complied 12–13 mths. As specified	Complied Complied Complied 12–14 mths. As specified
2.3	Prelimer (including First Stage Flash Evaporator)		No deviation	No deviation	No deviation	No deviation
2.4	Tail Ammonia Scrubber		No deviation	No deviation	No deviation	No deviation
2.5	Refined Salting Liquor Exchanger (i) Design Pressure : 0.5 MPa (ii) Heat Exchanging Area : 120 m ² /set		Complied Complied	Complied Complied	Complied Complied	Complied Complied
2.6	Hot Ammoniated Brine Exchanger (i) Design Pressure : 0.5 MPa (ii) Heat Exchanging Area:120 m ² /set		Complied Complied	Complied Complied	Complied Complied	Complied Complied
2.7	Ammoniated Brine Exchanger (i) Design Pressure : 0.5 MPa (ii) Heat Exchanging Area : 120m ² /set		Complied Complied	Complied Complied	Complied Complied	Complied Complied
2.8	Ammoniated Brine Exchanger		No deviation	No deviation	No deviation	No deviation

Sr. No.	Specified Terms and Conditions	Bidding Document Reference	Bidder No. 1	Bidder No. 3	Bidder No. 5	Bidder No. 6
2.9	Waste Liquor Carbonating Tower (i) Capacity: 300-350 m ³ /h set (ii) Waste Liquor: PH 8.5-9.0 (iii) Outlet Tail CO ₂ : 8-10% (iv) Construction Materials		300-350m ³ Complied Complied No deviation	300-350m ³ Complied Complied No deviation	300- 350m ³ Complied Complied No deviation	300-350m ³ Complied Complied No deviation
2.10	Limebini Gas Wash Tower (i) Deducing Efficiency: Min 92% (ii) Outlet Gas Dust Content: Max 250 mg/m ³ (iii) Construction Materials		- 93% Max.250 mg/m ³ No deviation	- 92% Max. 250 mg/m ³ No deviation	- 92% Max. 250 mg/m ³ No deviation	- 93% Max. 250 mg/m ³ No deviation
2.11	Flash Evaporator		Complied	Complied	Complied	Complied
2.12	Carbonated Settling Tank		No deviation	No deviation	No deviation	No deviation
3	Special Tools	Section VI	Complied	Complied List and Price shown separately	Complied	Not clearly mentioned
4	Technical Services	Section VI	Not clearly mentioned	Complied	Complied	Complied
	FINDINGS		Responsive. Price Adjustment for Technical Services will be required	Responsive. The Costs of Spare Parts Special Tools, Technical Services, shown separately should be to the bid price. (i) (ii) (iii)	Responsive. Some minor clarification will be required; no price adjustment is needed.	Responsive. Price Adjustment for Special Tools should be made.

Appendix 10

**TABLE 8: BID PRICES COMPARISON WITH PRICE ADJUSTMENTS
(BID PRICE IN LC)**

Serial. No.	Particulars	Bidder No. 3	Bidder No. 1	Bidder No. 5	Bidder No. 6
1	Material and Equipment				
1.1	Ammonia Distillation Column	6,183,150.0	4,550,000.0	4,596,012.0	4,576,732.0
1.2	Absorption Tower	4,206,228.0	5,922,000.0	6,587,940.0	6,547,260.0
1.3	Prelimer	770,856.0	677,400.0	574,968.0	829,560.0
1.4	Tail Ammonia Scrubber	66,880.0	54,400.0	76,664.0	67,823.0
1.5	Refined Salting Liquor Exchanger	170,160.0	253,600.0	273,776.0	293,336.0
1.6	Hot Ammoniated Brine Exchanger	110,160.0	253,600.0	273,776.0	293,336.0
1.7	Ammoniated Brine Exchanger	170,160.0	253,600.0	273,776.0	293,336.0
1.8	Ammoniated Brine Tank	90,160.0	144,400.0	153,328.0	128,872.0
1.9	Waste Liquor Carbonating Tower	236,024.0	223,200.0	291,320.0	276,468.0
1.10	Limebilm Gas Wash Tower	16,050.0	27,200.0	20,444.0	13,480.0
1.11	Flash Evaporator	68,156.0	73,600.0	71,552.0	73,040.0
1.12	Carbonated Liquor Settling Tank.	189,213.0	256,200.0	6,444.0	311,660.0
	Total Corrected Bid Price	12,337,197.0	12,689,200.0	13,200,000.0	13,704,903.0
2	Amount to be Adjusted				
	(a) Commercial	-	-	-	-
	(b) Technical	-	-	-	-
	(i) Spare Parts as Specified	42,322.0	-	-	-
	(ii) Special Tools	15,758.0	-	-	18,500.0
	(iii) Technical Services for Installation, Commissioning and Training	93,208.0	84,900.0	--	-
3	Total Evaluated Bid Price	12,488,485.0	12,774,100.0	13,200,000.0	13,723,403.0

Appendix 11**Required Minor Changes**

Bidder	Requirement in the Bidding Document	Bidder's Proposal	Changes Required
1			
3			
5			
6			

EXAMPLE 2

BID EVALUATION REPORT

CIVIL WORKS CONTRACT

In order to protect the autonomy of the borrowers, executing agencies, and bidders concerned, references to the name of the borrower, the borrower's country and currency, the executing agency, the name and address of the executing agency and the project site, the names of the bidders and bidders' representatives, the number and title of the ADB loan have been deleted.

The borrower, the borrower's country, the executing agency, the name and address of the executing agency and the project site, the names of bidders' representatives, and the number and title of the ADB loan have been replaced with combinations of the letter "x", the name of the borrower's currency has been referred to as "Local Currency (LC)", and the bidders have been identified by number and referred to as "Bidder No. 1", "Bidder No. 2", etc.

LETTERHEAD OF THE EXECUTING AGENCY

Our Reference; xxxx/xxxx/xxx (06)

9 October 2006

Manager
Energy Division, EARD
6 ADB Avenue,
Mandaluyong City 1550, Philippines

Subject : Loan No. xxxx-xxx: xxxxxx
LOT 1 - Civil Works
Bid No. 20/xxx/06 (ICB)

Dear Sir,

In compliance with the requirements of the Loan Agreement, we are submitting herewith three copies (3) of the Bid Evaluation Report for Lot I - Civil Works, Bid No. 20/xxx006 (ICB) for the ADB's review and approval.

We would like to mention that the award of the Contract as recommended in the Report has been approved by the President of the xxxxxx on 5 October 2006. As you will note, the validity of the bids expires on 28 November 2006. We would, therefore, appreciate receiving your approval of the recommendations made in the Report in time to advise the successful bidder before the expiration of the bids.

Sincerely yours,

Signed
Project Director

Attachment: Three copies of Report

XXXXXX

BID EVALUATION REPORT

FOR

LOT 1 – CIVIL WORKS

BID No. 20/XXX/06 (ICB)

ADB LOAN No. XXXX-XXX

30 SEPTEMBER 2006

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(CIVIL WORKS CONTRACT)

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1. INTRODUCTION

1.1 General

The pre-qualification of contractors for this Project was carried out in accordance with the Asian Development Bank (ADB) procedures in October 1995. Twenty (20) contractors and joint ventures were pre-qualified with approval of ADB. The invitation for Bids was issued to all pre-qualified contractors/joint ventures on 30 April 2006. The site visit and pre bid meeting were held on 2 and 3 June 2006 at xxxxxx and the Project site. Fifteen (15) contractors, out of the twenty (20) prequalified contractors, purchased the bidding documents and attended the pre-bid meeting. The minutes of the pre-bid meeting were prepared and sent to all the contractors who purchased the bidding documents. No addendum to the bidding documents was necessary as the result of pre-bid meeting.

1.2 Submission of Bids

The date and time for the submission of bids were not extended and the reception of bids by xxxxxx was closed at 10.00AM local time on 1 August 2006 as scheduled in the Invitation for Bids. Out of fifteen (15) prequalified contractors who purchased the bidding documents, nine (9) contractors submitted bids.

1.3 Bid Opening

Bids were opened as specified in the bidding documents at 10:30 am on 1 August 2006 at the meeting room, fourth floor of xxxxxx head office by the Bid Opening Committee in the presence of representatives of bidders. The bidders' names, the amount of bid prices, the presence or absence of bid security and its amount were announced and recorded. The Record of Bid Opening was prepared soon after the bids were announced and a copy of the Record of Bid Opening was forwarded to ADB under cover of xxxxxx's letter dated 6 August 2006. A copy is attached as **Appendix 1**.

1.4 Basic Data and Exchange Rates

The exchange rates used for the evaluation were the selling rates officially prescribed for similar transactions by the Central Bank on 1 August 2006 (i.e. date of bid opening). Basic information pertaining to the bidding is summarized and attached as **Appendix 2**.

1.5 Bid Evaluation Committee

A Bid Evaluation Committee comprising four senior officers of xxxxxx was established by the Director General. Assistance was provided by the staff of the Planning Department of xxxxxx and the project consultants. The Bid Evaluation Committee members were

(1) Chairman	Project Director
(2) Member	Director, Engineering Department
(3) Member	Legal Adviser
(4) Member/Secretary	Director, Planning Department

The Committee's decisions were made on the basis of unanimous views and in case a unanimous decision could not be reached on certain issues, the issues were referred to the Director General for decision.

2. EXAMINATION FOR COMPLETENESS OF BIDS

2.1 Bid Documents.

The bids submitted were first examined to check whether the bidders had submitted all the documents and information required by the bidding documents. The areas covered by the examination were:

- (i) Form of Bid and Bill of Quantities;
- (ii) Bid Security;
- (iii) Schedules of Particular Information;
- (iv) Joint Venture Agreement, if required;
- (v) Propriety of Signature and Power of Attorney;
- (vi) Completeness;
- (vii) Documents establishing the eligibility of bidders and goods; and
- (viii) Documents required to assess the post-qualification of bidders.

The record of checking for completeness of bid documents is attached as **Appendix 3**.

Only four bidders (No. 1, No. 4, No. 6 and No. 9) had submitted all documents and information required by the bidding documents. The remaining bidders did not submit complete information on construction methods and sequence of major structures; however, the deficiency is considered to be minor. Bidder No. 5 did not attach important information in respect to cash flow tabulation and the breakdown of lump sum price items. However, no further action was taken on this matter as the bid price of Bidder No. 5 was ranked seventh.

2.2 Propriety of Signature and Power of Attorney

Bid documents of all bidders were satisfactory in this aspect as all bid documents were signed properly as per the instructions to Bidders and all corrections were initialed by the authorized person. The power of attorney for each signatory was acceptable. The results of these examinations are shown in **Appendix 3**.

3. DETERMINATION OF SUBSTANTIVE RESPONSIVENESS OF BIDS

3.1 Eligibility of Bidders and Goods

The bidding documents required, in Clause 4 of the Instructions to Bidders, that each bidder submits with its bid evidence of its eligibility concerning its nationality. All bidders submitted certifications, which indicated that they were nationals of an eligible member country, and offered goods originating in an eligible member country of ADB. Further, all bidders certified that they were not involved in the consulting services for the works (See **Appendix 5**: Table of Substantive Responsiveness).

3.2 Bidders' Qualifications

The updated information regarding financial capacity and technical capability of all bidders was examined. All bidders submitted the completed forms provided with the bidding documents, such as listings of current workload, changes in financial capacity, and availability of construction equipment and key professional personnel.

- (a) Bidder No.1 had obtained two relatively small contracts recently with a total value equivalent to about US\$25 million. The bidder's bid capacity has slightly decreased, but was still found to be satisfactory. Overall, the financial position of the firm remained satisfactory.
- (b) Because of the short period between prequalification and bidding, only minor changes in the submissions of the other bidders had occurred. None of those changes were, however, of such importance that they would inhibit the bidders' ability to satisfactorily execute the contract, if awarded. Using the criteria and minimum requirements established during prequalification, all bidders continued to exceed the minimum point scores used in the original evaluation.

3.3 Arithmetic Check and Corrections

Each bid was checked for arithmetic errors in accordance with the provisions of the bidding documents and such errors were corrected. These corrections, none of which were substantial, were tabulated and are shown in **Appendix 4**: Table of Summary of Bid Prices (Arithmetic Corrections and Corrected Bid Prices).

3.4 Compliance with Commercial Terms and Conditions

3.4.1 Bid Validity and Bid Security¹

A bid validity period of at least 120 days from the date of bid opening was specified in the bidding documents. All bidders offered a bid validity period as required.

All bidders submitted bid securities in the form of a Bank guarantee and fulfilled the requirements in the amount, terms and period of validity except Bidder No. 8. The amount of the bid security of Bidder No. 8 was equivalent to 1.95% of their bid price and did not satisfy fully the specified requirement of a minimum of 2% of the bid price. After due consideration of all relevant factors, in particular fairness to the bidder and all other bidders, it was concluded that the failure to submit a bid security in the required amount should be considered a minor deviation because the security furnished provided sufficient protection against default. However, the bidder was asked to furnish an additional security to cover the difference. The bidder was requested to do so on 10 August 2006 and the additional security was received on 15 August 2006.

3.4.2 Time for Completion

A check on the times for completion was carried out on the construction schedule submitted by each of the bidders. The times for completion of the various major work components were analyzed to check (i) whether they are logical and (ii) whether completion times comply with the schedules and are interlinked to satisfy other supply and installation contracts for the Project. **Appendix 6** shows the times for completion of the major work components of the Project. In several major work components, some bidders did not meet the requirements. However, these differences were not considered substantial.

3.4.3 Terms of Payment

Most of the bidders accepted the commercial provisions of the bidding documents, except that Bidders Nos. 3, 5 and 7 proposed substitution of the retention money to be held during the defects liability period with a Bank guarantee. The deviation from the terms of the bidding documents was not considered to be substantive, and an adjustment of the bid price was not required.

¹ The assessment of deviations on bid security shall be in accordance with the provisions of the bidding document issued specifically for the contract.

3.5 Compliance with Technical Requirements

The Bid Evaluation Committee reviewed compliance with the requirements for the submission of bids, which included: completion of the Bill of Quantities; the construction schedule; construction methods and sequence; proposed construction equipment and a schedule for delivery to the works site; a detailed description of proposed site organization; and a schedule for the mobilization of management, engineering and administrative personnel, and of skilled and unskilled labor. All bidders submitted the formal requirements as stipulated in the bidding documents.

3.5.1 Technical Deviations

None of the bids contained substantial technical deviations. Bidder No. 1 proposed to carry out the tunnel excavation by tunnel boring machine (TBM). In the technical specifications the excavation for tunneling is specified to be carried out by drilling and blasting. If the supporting systems installed after excavation by TBM are constructed similar to that specified for the drilling and blasting method, the excavation by TBM is considered to be acceptable. Bidder No. 6 proposed to use precast prestressed concrete roof girders instead of cast in situ reinforced concrete girders as specified for the powerhouse.

4. DETAILED EVALUATION OF BIDS

4.1 Selection of Bids for Detailed Evaluation

As discussed in Section 3 of this Report, all bids submitted by the nine bidders were determined as substantially responsive to the bidding documents. The ranking in order of the lowest bid price is as follows.

Sr. No.	Name of Bidder	As Opened (LC)	Arithmetically Corrected (LC)	Ranking	Variation
1	Bidder No. 6	120,801,821	120,804,798	1	–
2	Bidder No. 3	133,049,215	133,087,644	2	10.17%
3	Bidder No. 4	140,260,769	140,267,692	3	16.10%
4	Bidder No. 8	154,064,446	154,064,446	4	27.53%
5	Bidder No. 1	161,190,283	161,191,644	5	33.43%
6	Bidder No. 9	161,388,798	161,388,797	6	33.77%
7	Bidder No. 5	168,443,268	168,467,180	7	39.46%
8	Bidder No. 7	172,807,355	172,807,355	8	43.05%
9	Bidder No. 2	196,915,693	196,958,318	9	63.30%

In order to reduce the volume of work involved in the detailed evaluation, it was decided to evaluate initially only the three lowest bids. Other bids would be evaluated only if adjustments, if any, to be made to the three

lowest bids would bring their adjusted price above the unadjusted price of any of the other bids.

Accordingly, only bids Nos. 6, 3 and 4 were initially evaluated and, since the adjusted prices of all three bids were lower than the unadjusted price of any of the other bids, detailed evaluation of the higher bids was not necessary.

4.2 Commercial Terms and Conditions

All three lowest bidders accepted the commercial provisions of the bidding documents. Therefore, no price adjustments for commercial terms and conditions were necessary (see **Appendix 7**, Bid Price Comparison).

4.3 Evaluation for Technical Requirements

4.3.1 Technical Specifications

- (a) Bidder No. 6 deviated from the specifications for the powerhouse. The bidder proposed to use precast prestressed concrete roof girders instead of cast in situ reinforced concrete girders as specified. During the bid clarification meetings, it was established that the bidder's proposal was unacceptable because precast girders could not be put into place without subjecting the walls to horizontal stresses for which they were not designed and which they might not withstand. The bidder agreed to comply with the specifications but indicated that a reasonable additional cost would need to be negotiated at the time of contract award. The bid was not rejected as this deviation from the specifications was considered as minor. The project consultants estimated that the cost of precast prestressed concrete roof girders is LC286,500.00 cheaper than the cost of cast in situ reinforced concrete as specified. To be fair to other bidders it was decided to load the bid price of Bidder No. 6 by LC286,500.00 for bid evaluation purposes (see **Appendix 7**, Bid Price Comparison). In the event of award of contract to Bidder No. 6 an appropriate amount would be negotiated.
- (b) Bidders Nos. 3 and 4 appeared to have deviated from the specifications on some minor details but were found to be in compliance after reviewing these details during the bid clarification meetings. As a result, adjustments to the bid prices were not required.

4.3.2 Construction Schedule and Sequence of Construction Activities

The construction schedules and sequences of construction activities proposed by the three lowest bidders were evaluated in detail. The construction schedules submitted were generally consistent with the schedule in the bidding documents. A number of minor inconsistencies were discussed and the necessary changes agreed in the event that a contract were to be awarded. However, finalization was left to contract negotiations with the successful bidder. The findings were as follows

(a) Bidder No. 6

In the bidder's construction schedule:

- (i) concrete lining periods for the headrace tunnel, cable tunnel and tailrace tunnel were deemed to be short; and
- (ii) concrete work for the tailrace outlet could be constructed only after excavation of the tailrace tunnel.

These could be adjusted easily when the construction CPM is prepared for the contract agreement.

(b) Bidder No. 3

In the bidder's construction schedule, the following work activities were not clearly shown:

- (i) drilling for drainage holes in the work for tunnel No. 1; and
- (ii) excavation and concrete work for the drainage tunnel.

However, these are not substantial deficiencies.

(c) Bidder No. 4

In the bidder's construction schedule, the following works were not clearly shown:

- (i) river diversion works for the intake dam and regulating dam;
- (ii) check dam located near the intake dam and right bank of the river; and

- (iii) invert concrete of the access tunnel to be constructed after completion of the installation of generating equipment.

These can be adjusted easily in the overall construction schedule.

4.3.3 Construction Methods

The construction methods proposed by the three bidders were reviewed and evaluated in detail. Overall, the bidders' proposed construction methods were acceptable. The following were the findings of the review.

(a) Bidder No. 6

The bidder proposed the following construction methods, which were considered acceptable:

- (i) mucking transport on rail for excavation of the main part of the headrace tunnel and of the section from the tailrace outlet to the work adit No. 3; and
- (ii) the traditional method of excavation and the use of suitable equipment for personnel and construction material movements, and the lifting of excavated material for the construction of the cable tunnel.

(b) Bidder No. 3

In the bidder's construction methods, activities for the following works were not clearly mentioned:

- (i) care of water or river diversion at check dam site during construction of the intake dam and check dam;
- (ii) consolidation grouting in surge tank; and
- (iii) location of the temporary overhead crane for concreting works in the powerhouse.

Clarifications were requested from the bidder. Its replies were satisfactory.

(c) Bidder No. 4

The presentation of the construction methods provided by this bidder was considered relatively poor compared with the other two bidders. The following were discussed:

- (i) the location of the temporary overhead crane for concreting works in the powerhouse was not in suitable place and should be relocated.
- (ii) care of water or river diversion at the check dam site during construction of the intake dam and check dam were not shown; and
- (iii) consolidation grouting around the surge tank was not clearly mentioned.

However, additional information provided by the bidder was clear and acceptable.

4.3.4 Construction Equipment

Mobilization of construction equipment, particularly construction equipment for underground works, is important for the successful completion of this Project. While there were a great number of differences between the equipment schedules submitted by the three bidders, all of them were consistent and compatible with the proposed construction methods and construction schedules. Proposals for construction equipment by all three bidders were considered to be complete and acceptable. The Executing Agency's estimated construction equipment required for the works and the list of equipment proposed by Bidder No. 6 are presented as **Appendix 8**.

4.3.5 Site Organization and Key Field Personnel

Site organization and key field personnel proposed by the three bidders were evaluated in detail with respect to their proposed positions in the site organization, their age, education attained, and experience. The site organization and key personnel proposed by all three bidders were generally acceptable. No serious deficiency was noted in the scrutiny. However, in the proposal of Bidder No. 6, the number of foreign engineers for underground works was considered to be less than necessary and, therefore, additional input of foreign engineers in the early state of construction works would be required. Some modifications in detail were discussed and these matters would be finalized during contract negotiations with the bidder, if successful.

4.3.6 Subcontracting

The scope of the subcontracts proposed by each bidder was reviewed and was found to be within the limits established in the bidding documents. The experience of each individual subcontractor was determined by reference to the bid submissions, in part in the bid documents, and partly during the bid clarification meetings. Details of the subcontractors proposed by the three bidders are shown in **Appendix 9**.

4.3.7 Labour, Materials and Cash Flow

All three bidders submitted their proposed schedules for labor, major materials (such as cement, reinforcing steel, structural steel, explosives, diesel fuel, etc.) and cash flow. The proposals were reviewed with their construction methods and construction program. The proposals have minor inconsistencies but generally were considered satisfactory. The payment schedule (cash flow) of Bidder No. 6 is attached as **Appendix 10**.

4.3.8 Construction Facilities

The construction facilities proposed by the three bidders were evaluated and the results of Bidder No. 6 are shown in **Appendix 11**. Overall, all three bidders' proposals are satisfactory. The following are the findings of the detailed scrutiny:

(a) Bidder No. 6

In the bidder's proposal of construction facilities, the following matters needed clarification:

- (i) General location map of construction facilities was not submitted;
- (ii) Water supply system for the camp area was not clearly mentioned; and
- (iii) Telecommunication system was not mentioned.

Clarifications were requested and the replies were satisfactory.

(b) Bidder No. 3

In the bidder's proposal of construction facilities, the following matters were not clearly addressed:

- (i) Location and details of explosive storage;
- (ii) Estimation of quantity of available aggregate from underground excavated materials; and
- (ii) Production program of concrete for two sets of concrete batching plants at the intake dam area and the Work Adit No. 5 area, on a monthly basis so as to determine each plant's capacity.

Clarifications were sought and the information furnished by the bidder was satisfactory.

(c) Bidder No. 4

In the bidder's proposal of construction facilities, the following matters were not clearly mentioned:

- (i) Water supply system and electrical power supply system for offices, camps and construction sites;
- (ii) Appropriateness of proposed location of aggregate plant in case available quantities of SG 7 – sand and gravel borrow areas are not adequate; and
- (iii) Production schedule of aggregate on a monthly basis to determine the plant capacity.

Clarifications were requested and the bidder's replies were satisfactory.

4.4 Analysis of Prices

As a guide to the examination of prices quoted in the bids, prices quoted for each Section of the Work were computed, as defined in the Bill of Quantities, as a percentage of the total bid price and compared with the percentages of each bid and also with the corresponding percentages of the Executing Agency's estimate.

The comparison is shown in **Appendix 12**. On the basis of this review, thorough discussions were held with the bidders, particularly the lowest bidder (Bidder No. 6). After these discussions with the bidders, the Committee was satisfied that the bidders had fully understood the requirements for the Work and the specifications governing materials and construction processes, and that they were prepared to carry out the Work as specified in the bidding documents. Despite the differences in pricing of the various sections of the Work, the Committee did not find any instances of intentionally unbalancing the bill.

4.5 Clarifications

As mentioned previously, bidders were requested for clarifications to obtain further information in order to establish their capability to carry out the Work. The Committee did not ask for clarifications which may have led to a change in the substance of a bid. In addition, the results of the arithmetic check on the three lowest bids were also confirmed by the bidders. Clarifications requested by the Committee and the replies by bidders were made in writing and these documents were properly recorded and held with the respective original bid documents of the bidder.

4. COMPARISON OF BIDS AND DETERMINATION OF LOWEST EVALUATED BID

5.1 Lowest Evaluated Bid

The corrected and adjusted prices for the three bids which were evaluated in detail are shown in **Appendix 7**. As that comparison shows, the lowest evaluated substantially responsive bid is that submitted by Bidder No. 6 for a total evaluated bid price of LC121,091,298 equivalent. The JV's proposal of Japanese Yen 1,477,007,901 in foreign currency, which represents about 32% of the total bid price, was considered reasonable.

5.2 Examination of Unbalanced Prices for Lowest Evaluated Bid

Comparison of unit rates and prices, particularly early work items, of the lowest evaluated bid with average rates of the other two lowest bids and the Executing Agency's estimate were carried out.

5.2.1 High Unit Rates and Prices.

A unit rate or price is considered high if it is 50%, higher than the average of two bids and the Executing Agency's estimate. There are high unit rates and prices in the lowest bid, however, none of these items exceeds an amount of more than 1% of the total bid price. In addition, the total amount of items with high unit rates and prices of the lowest bidder is only 3.4% of its total bid price.

(a) High Unit Rates and Prices in Early Work Items.

Those work items which were to be carried out in the first eight months are considered as early work items. Several items, mainly diversion and coffering works for the intake dam and tailrace outlet were evaluated as high unit rates and prices, but the total value of these items is about 0-9 % of the total bid price.

From the above results of the review, the lowest bid should not be considered as an unbalanced bid in respect of early work items.

(b) High Unit Rates and Prices for Other Items

The total amount of high unit rates and prices in other work items is about 2.5% of the bid price. However, none of the items exceed 1% of the total bid price. The corresponding work quantities stated in the Bill of Quantities of key items were checked and found to be calculated correctly. Detailed checking showed that the items involved are minor work items and the quantities of these items were unlikely to be increased

significantly thus the lowest bid should also be considered as a balanced bid.

5.3 Reasonableness of Price of Lowest Evaluated Bid

The lowest evaluated bid, submitted by Bidder No. 6, is about 19% lower than the Executing Agency's estimate. The unit prices of open works were rather low compared with other works of a similar nature in the country but the underground works were almost of a similar price as in other projects. Thus, it was considered that the bid of the lowest evaluated bidder is not substantially low and the Committee was confident that the lowest evaluated bidder would be able to complete the Work in accordance with the specifications and the construction schedule.

5. CONCLUSIONS AND RECOMMENDATIONS

On the basis of the systematic evaluation of bids as presented in this report, it was concluded that the bid of Bidder No. 6 was the lowest evaluated substantially responsive bid. Therefore, it was recommended that the Contract for Lot 1 Civil Works, xxxxxx be awarded to Bidder No. 6 for the contract amount of LC81.991.984.40 and Japanese Yen 1,477,007,901.00 (LC 120,804,798.00 equivalent) plus an additional cost for the change from the proposed precast prestressed concrete girders to cast in situ R.C. girders as specified for the powerhouse. This additional cost would be negotiated with the bidder, however, the cost would not be more than LC286,500.00 as discussed in paragraph 4.3.1 of this Report.

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RECORD OF BID OPENING

Loan No. xxxx-xxx
Bid No. 20/xxx/06 (ICB)

Project Title: xxxxxx
Contract Title: LOT 1 - Civil Works.

1. The following bids were received by the close of bidding on 1 August 2006 at 10:00 hrs (local time) and were publicly opened and read at 10:30 hrs on the same date.

No.	Name of Bidder and Nationality	Bid Security Amount	Foreign Currency (FC)	Local Currency (LC)	Discounts Offered	Signature of Bidders' Rep.
1	Bidder No. 1	\$ 1,650,000.00	\$ 29,755,563.00	93,377,354.90		Signed
2	Bidder No.2	\$1,950,000-00	FF 239.793.677.40	82,150,439.50		Signed
3	Bidder No. 3	Y 126,000,000.00	Y 1,904,999,010.00	82,989,651.40		Signed
4	Bidder No. 4	MK 3,150,000.00	\$ 27,041,671.80	78,632,798.60		Signed
5	Bidder No. 5	Y 145,000,000.00	Y 2,984,560,000.00	90,015,000.00		Signed
6	Bidder No. 6	Y 125,000,000.00	Y 1,477,007,041.00	81,989,030.40		Signed
7	Bidder No. 7	\$ 1,950,000.010	\$ 36,354,010.00	89,956,566.50		Signed
8	Bidder No. 8	MK 3,010,000.00	\$ 40,168,801.00	62,519,748.80		Signed
9	Bidder No. 9	\$ 1,800,000.00	FF 160,632,595.10	84,510,037.50		Signed

Appendix 1
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2. The following bidders' representatives attended the public opening of bids and a copy of the attendance sheet is attached as an annexure of this record.

No.	Name	Designation	Bidding Company Represented
1	Mr. xxxxx	Area Manager S.E. Asia Office	Bidder No. 3
2	Mr. xxxxx	Chief Engineer	Bidder No. 1
3	Mr. xxxxx	Vice President	Bidder No. 6
4	Mr. xxxxx	Manager International Marketing	Bidder No. 4
5	Mr. xxxxx	Vice President Asia Pacific Operation	Bidder No. 5
6	Mr. xxxxx	General Manager xxx Branch	Bidder No. 2
7	Mr. xxxxx	Chief Engineer Construction	Bidder No.9
8	Mr. xxxxx	Manager Regional Office	Bidder No. 7
9	Mr. xxxxx	Deputy Director Operations	Bidder No. 8

3. Reading and Signing of document, ended at 13:15 hrs.

Signed
Member
Director, Planning Department

Signed
Chairman
Project Director

Signed
Member
Legal Adviser

Appendix 1
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ATTENDANCE SHEET FOR OPENING OF BIDS

Loan No. xxx-xxx
Bid No. 20/xxx/06 (ICB)
Place: Meeting Room.
Fourth Floor, xxxxxx

Project title : xxxxxx
Contract Title: LOT-1 Civil Works.
Date: 1 August 2006; Time 10:30hrs.

The following bidders' representatives attended the public opening of bids.

No.	Bidder	Representative	Designation	Signature
1	Bidder No. 3	Mr. xxxxxx	Area Manager S.E. Asia Office	Signed
2	Bidder No. 1	Mr. xxxxxx	Chief Engineer	Signed
3	Bidder No. 6	Mr. xxxxxx	Vice President	Signed
4	Bidder No. 4	Mr. xxxxxx	Manager International Marketing	Signed
5	Bidder No. 5	Mr. xxxxxx	Vice President Asia Pacific Operations	Signed
6	Bidder No. 2	Mr. xxxxxx	General Manager xxx Branch	Signed
7	Bidder No. 9	Mr. xxxxxx	Chief Engineer Construction	Signed
8	Bidder No. 7	Mr. xxxxxx	Manager Regional Office	Signed
9	Bidder No. 8	Mr. xxxxxx	Deputy Director Operations	Signed

Appendix 2

BASIC DATA SHEET

1.	Project Title	XXXXXX
2.	Loan Number	xxxx-xxx
3.	Bid/Contract Title	LOT 1 Civil Works
4.	Bid/Contract Number	20/xxx/06 (ICB)
5.	Estimated Value/Engineer's Estimate	LC 152,917,466.00
6.	Date Invitation For Bids Issued	30 April 2006
7.	Mode of Procurement	International Competitive Bidding
8.	Bid Closing Date and Time	10:00 hrs. on 1 August 2006
9.	Bid Opening Date and Time	10:30 hrs. on 1 August 2006
10.	Number of Bids Received	Nine (9) bids
11.	Bid Validity Expires on	28 November 2006
12.	Bid Security Amount	Not less than 2% of the Bid Price
13.	Bid Security Validity Expires On	26 December 2006
14.	Date for Determining Applicable Exchange Rates	1 August 2006 (Date of Bid Opening)
15.	Exchange Rates for Evaluation	US Dollar 1 — LC 2.2790 Japanese Yen 100 = LC 2.6278 French Franc 1 — LC 0.4786 Source: The selling exchange rates of Central Bank of xxxxxxx.

Appendix 3

TABLE 1: EXAMINATION OF COMPLETENESS OF BID DOCUMENTS

Item	Description	Bidder No.								
		1	2	3	4	5	6	7	8	9
1	Bid Documents									
1.1	One original and two copies	Y	Y	Y	Y	Y	Y	Y	Y	Y
1.2	Form of Bid	Y	Y	Y	Y	Y	Y	Y	Y	Y
1.3	Appendix to Bid	Y	Y	Y	Y	Y	Y	Y	Y	Y
1.4	Priced Bill of Quantities	Y	Y	Y	Y	Y	Y	Y	Y	Y
1.5	Bid Security (amount and validity period)	Y	Y	Y	Y	Y	Y	Y	Y	Y
1.6	Schedule of Particular Information 1) Construction Time Schedule 2) Construction Method 3) List of Construction Equipment 4) Organization & Field Personnel 5) Subcontracting 6) Mobilization and Temporary/ Construction Facilities 7) Cash Flow	Y Y Y Y Y Y Y	Y P Y N Y Y Y	Y Y Y Y Y Y Y	Y Y Y Y Y Y Y	Y Y Y P N Y Y	Y Y Y Y Y Y Y	Y P Y P Y Y N	Y P Y Y N Y N	Y Y Y P N P Y
1.7	Drawings and Documents (to be submitted with bid)	Y	Y	Y	Y	P	Y	P	Y	P
1.8	Joint Venture Agreement or Formal Intent to Enter into an Agreement (if Bidder is a joint venture)	NA	Y	Y	Y	Y	Y	NA	NA	Y
2	Propriety of Signature and Completeness									
2.1	Power of Attorney submitted or not	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.2	Bid Form properly signed or not	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.3	Completeness of Bids	Y	Y	Y	Y	Y	Y	Y	Y	Y

Y = Yes; N = No; P = Partial; NA = Not Applicable

Appendix 4

TABLE 2: SUMMARY OF BID PRICES
(ARITHMETIC CORRECTIONS AND CORRECTED BID PRICES)

Bidder No.	Bid Price at Opening		Discounts		Arithmetic Correction		Corrected Bid Price		Total Corrected Bid Price In [Currency of Employer's Country] Equivalent ¹	Ranking
	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency		
1	(1)	(1)	(2)	(2)	(3)	(3)	(4) = 1 - 2 ± 3	(4) = 1 - 2 ± 3		
2									1	
3										
4										
5										
6										
7										
8										
9										

¹ Based on the Selling Exchange Rate:

5	Government-owned enterprise in Employer's country to be legally and financially autonomous, operate under commercial law, and not dependent agency of the Employer.	Section 1, Clause 4.5	Not a gov. owned enterprise	Not a gov. owned enterprise	Not a gov. owned enterprise	Not a gov. owned enterprise	Not a gov. owned enterprise	Not a gov. owned enterprise legally & financially autonomous, and not a dependent agency of the Employer	Not a gov. owned enterprise	Not a gov. owned enterprise	Not a gov. owned enterprise
6	Not having been declared ineligible based on a United Nations resolution.	Section 1, Clause 4.7	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible	Not declared ineligible

Appendix 5

TABLE 3: SUBSTANTIVE RESPONSIVENESS OF BIDS

Sr. No.	Requirements	Bidding Doc. Reference	Bidder No.									
			1	2	3	4	5	6	7	8	9	
1	Power of Attorney	Section 1, Clause 20.2 Section 2, ITB 20.2	C	C	C	C	C	C	C	C	C	C
2	Signature on Documents	Section 1, Clause 20.2	C	C	C	C	C	C	C	C	C	C
3	Joint Venture Agreement or Letter of Intent to Enter into an Agreement	Section 1, Clause 4.1	NA	C	C	C	C	C	C	NA	NA	C
4	Eligibility	Section 1, Clause 4 (See Attachment to this Appendix)	C	C	C	C	C	C	C	C	C	C
	(a) Bidder and Sub Contractor		C	C	C	C	C	C	C	C	C	C
	(b) Bidder Affiliated with Consultant	Clause 5	C	C	C	C	C	C	C	C	C	C
5	Bid Validity(120 days)	Section 1, Clause 18 Section 2, ITB 18.1	C	C	C	C	C	C	C	C	C	C
	Bid Security	Section 1, Clause 19 Section 2, ITB 19.1	C	C	C	C	C	C	C	PC ¹	C	C
6	(a) Amount and Validity											
	(b) Format and Terms											
7	Time for Competition	Section 8, Clause 1.1.3.3										
8	Terms of Payment	Section 7, Clause 14, Section 8, Ref. GCC 14.2	C	C	C	C	C	C	C	C	C	C
	(a) Advance Payment (15%)		C	C	PC ¹	C	PC ¹	C	PC ¹	C	C	C
	(b) Retention Money (10%)	Section 8, Ref. GCC 13.8	C	C	C	C	C	C	C	C	C	C
9	(c) Price Adjustment											
	Liquidated Damages	Section 8, Ref. GCC 8.7 & 14.15 (b)	C	C	C	C	C	C	C	C	C	C
10	(a) Rate (0 5% per week)											
	(b) Maximum Limit (10%)											
11	Defects Liability Period (12 months)	Section 7, Clause 4 Section 8, Clause 1.1.3.7	C	C	C	C	C	C	C	C	C	C
11	Performance Security (10%)	Section 8, Ref. GCC 4.2	C	C	C	C	C	C	C	C	C	C
	FINDINGS		R	R	R	R	R	R	R	R	R	R

C = Complied

NA = Not Applicable

NC = Not Complied

PC = Partially Complied

R = Substantially Responsive

¹ State reason

Appendix 6

TABLE 4: TIME FOR COMPLETION OF MAJOR WORK ITEMS & ASSESSMENT OF CONSTRUCTION METHODS

Item No.	Particulars	Periods for Completion (months)						
		Employer Program	Bidder No. 3		Bidder No. 4		Bidder No. 6	
1	Intake Dam	37	37	Y	27	Y	30	Y
2	Intake Facilities	47	47	Y	32	Y	38	Y
3	Headrace Drain Tunnel	55	55	Y	45	Y	55	Y
4	Penstock Tunnel	45	45	Y	45	Y	43	Y
5	Tailrace Chamber and Outlet	56	56	Y	53	Y	56	Y
6	Deregulation Dam	38	38	Y	31	Y	28	Y
7	Powerhouse O.H. Crane Installation	45	45	Y	45	Y	39	Y
8	Powerhouse for Turbine/Generator Installation	51	NC	–	47	Y	NC	–
9	Powerhouse for Transformer Installation	51	NC	–	51	Y	45	Y
10	Control Room for Control Equipment Installation	50	50	Y	NC		45	Y
11	Cable Tunnel	51	51	Y	51	Y	51	Y
12	Outdoor Switchyard	48	48	Y	48	Y	38	Y
13	Main Control House	50	50	Y	50	Y	50	Y
14	Intake Dam Control House	51	50	Y	51	Y	40	Y
15	Regulating Dam Control House	55	54	Y	54	Y	54	Y
16	Completion of Whole Works	60	60	Y	60	Y	60	Y

Item No.	Construction Methods	Findings		
1	Logic of Construction Schedule	A	A	A
2	Feasibility of Achieving Schedule	A	AA	AA
3	Assessment of Construction Method	A	A	A

Note: Y = Within Specified months
NC = Not Shown Clearly

A = Acceptable
AA = Marginally Acceptable

TABLE 5: BID PRICE COMPARISON WITH PRICE ADJUSTMENTS

Sr. No.	Particulars	Bidder No. 3		Bidder No. 4		Bidder No. 6	
		Foreign (Y)	Local (LC)	Foreign (US\$)	Local(LC)	Foreign (Y)	Local (LC)
1	Bid Price (As Submitted) Including Discounts	1,904,999,010.00	82,989,651.40	27,041,671.80	78,632,798.60	1,477,007,041.00	81,989,030.40
2	Bid Price (As Corrected)	1,906,166,590.00	83,023,676.90	27,043,746.80	78,634,993.10	1,477,007,901.00	81,991,984.40
3	Amount to be Adjusted for Deviations (a) Commercial (b) Technical	- -	- -	- -	- -	- -	- 286,500.00
4	Sub-Total (2) to (3)	1,905,166,590.00	83,023,676.90	27,043,746.80	78,634,993.10	1,477,007,901.00	82,278,484.40
5	Converted to LC for Comparison ¹	133,087,644.60		140,267,692.00		121,091,298.00	
6	Ranking	(2)		(3)		(1)	

¹ Based on selling exchange rates: _____

**TABLE 6: COMPARISON OF CONSTRUCTION EQUIPMENT
(ENGINEER'S ESTIMATE VS PROPOSAL OF BIDDER NO. 6)**

Item	Particulars	Engineer's Estimate		Bidder No. 6	
		Capacity	Nos.	Capacity	Nos.
1	Earth Moving				
1.1	Bulldozer	32 t	2	32 t	1
1.2	Bulldozer	15/25 t	5	15/25 t	4
1.3	Backhoe	1.2 m ³	2	1.5 m ³	1
1.4	Backhoe	0.7 m ³	2	0.7/1.2 m ³	4
1.5	Wheel Loader	2.3 m ³	4	2.5 m ³	2
1.6	Dump Truck	11 t	24	11 t	20
1.7	Pneumatic Crawler Drill	100 kg	2	150 kg	2
1.8	Portable Air Compressor	10.5 m ³ /min	2	5 m ³ /min	3
2	Transportation				
2.1	Low Bed Semi-trailer	30 t	1	20 t	1
2.2	Cargo Truck	8 t	4	4.8 t	3
2.3	Water Sprinkler Truck	6 kl	2	6 kl	2
2.4	Hydraulic Crane	20 t	1	20 t	1
2.5	Motor Grader	150 kW	2	150 kW	1
3	Tunnel Work				
3.1	Drill Jumbo - 2 - boom	5	55 kW	2	
3.2	Conveyor Type Loader	40 m ³ /h	4	4.5 t	3
3.3	Side Dump Wheel Loader	2.3 m ³	2	1.9 m ³	2
3.4	Side Dump Wheel Loader	1.6 m ³	1	–	
3.5	Loader Haul Dump	3.8 m ³	2	3.2 m ³	1
3.6	Shotcrete Machine	6 m ³ /h	6	5.12 m ³ /h	4
3.7	Hydraulic Crawler Drill	180 kg	8	110 kW	2
3.8	Air Compressor	17 m ³ /min	6	18.26 m ³ /min	8
3.9	Dump Truck	–	–	11 t	6

Appendix 8
Page 2 of 2

Item	Particulars	Engineers Estimate		Bidder No. 6	
		Capacity	Nos.	Capacity	Nos.
4	Drilling and Grouting Work				
4.1	Boring Machine	7.5 kW	3	5.5 kW	4
4.2	Grout Pump	11 kW	6	18.5 kW	2
4.3	Grout Pump	7.5 kW	2	7.5 kW	4
4.4	Grout Mixer	200 L	8	200 L	4
5	Aggregate Production				
5.1	Crushing Plant	105 ton/h	1 Set	40 t/h	2
6	Concrete Production and Handling				
6.1	Concrete Mixing Plant	36/48 m ³ /hr	2 Sets	30/50 m ³ /hr	2 Sets
6.2	Truck Mixer	4.5 m ³ /hr	16	6 m ³ /hr	8
6.3	Concrete Pump Truck	80 m ³ /hr	6	–	–
6.4	Concrete Bucket	1.5 m ³	2	–	–
6.5	Truck Crane	30 t	1	–	–
6.6	Concrete Pump			60–70 m ³ /hr	4
7	Other Plant and Equipment				
7.1	Engine Generator		–	100 450 kVA	15

Comment: Satisfactory, however, Drill Jumbo is not adequate for Tunnel Work

Appendix 9

TABLE 7: SUBCONTRACTING

Bidder No.	Work to be Subcontracted			Subcontractor		Evaluation
	Work Item	Estimated Value	Name	Experience		
3	4.1 – 4.7	Architectural and Utility Works	LC 3,125,000	Subcontractor No. 1	(a) Sport Shoe Factory Architectural, Mechanical and Electrical Works	Acceptable
	5.1 – 5.5	Electrical Works	LC 2,250,000		(b) International Trade Center Architectural and Electrical	
	1.2.3 / 001	Piles	LC 205,000		30 projects of drilling works	
6	1.1.4 / 001	Drilling for Concrete Piles	Y 45,508,500 LC 121,200	Subcontractor No. 2	Several Contracts for concrete piling works submitted	Acceptable
	1.2.3 / 001					
4	5.1 – 5.5	Electrical Works	LC 2,400,000	Subcontractor No. 3	(a) xxxxx Power Plant - Piping works and Mechanical & Electrical works (b) xxxxxxx Hydro-electric Power - Electrical works	Acceptable

Appendix 10

**TABLE 8: PAYMENT SCHEDULE
(BIDDER No. 6)**

Period in Months	Foreign Currency (1000 Yen)	Local Currency (1000 LC)	Total in (1000 LC)
1-3 First Year	177,840	10,308	14,982
4-6	81,652	5,141	7,287
7-9	83,651	5,475	7,673
10-12	76,307	5,515	7,520
13-15 Second Year	78,960	6,572	8,647
16-18	70,310	5,693	7,541
19-21	73,233	5,976	7,901
22-24	89,160	5,000	7,343
25-27 Third Year	81,674	4,038	6,184
28-30	78,949	3,918	5,993
31-33	74,636	3,300	5,261
34-36	80,948	3,261	5,388
37-39 Fourth Year	78,562	3,064	5,129
40-42	96,041	3,803	6,327
43-45	101,630	4,111	6,782
46-48	89,403	3,361	5,711
49-51 Fifth Year	43,501	2,068	3,211
52-54	16,215	1,082	1,509
55-57	3,240	254	338
58-60	822	37	59
61-63 Sixth Year	274	12	19
64-66	0	0	0
67-69	0	0	0
69-72	0	0	0
Total	1,477,008	81,990	120,805

Comment: Satisfactory: Consistent with Construction Schedule

Appendix 11

**TABLE 9: CONSTRUCTION FACILITIES
(BIDDER No. 6)**

1. Aggregate Plant	(i) Location: between tailrace outlet and re-regulating dam 40t/h capacity (ii) Intake dam area 40t/h capacity
2. Common Plant	(i) Intake dam area 50 m ³ /h capacity (ii) Inlet of work adit No. 5 area 30 m ³ /h capacity
3. Water Supply System	Water supply systems for offices, camps and open air construction are not mentioned; other areas acceptable
4. Power Supply System	15 generators of 100-450 kVA at the different locations of main utilization including for offices, camps etc. 4570 kVA in total
5. Telecommunications System	Using VHF radio communication system from the main office to work sites
6. Testing Laboratory	Main office, intake dam area and inlet of work adit No. 5 area with 150,150 and 300m ² respectively
7. Medical Clinic	At main office area with 150m ² floor area
8. Offices	(i) Main office – near base camp: 900 m ² (ii) Site office – near inlet of access tunnel: 100 m ² (iii) Engineer's Offices – locations of main construction sites with 50m ² each
9. Camp	(i) Staff camp – near base camp: 2080 m ² (ii) Worker's camp – near tailrace outlet: 3650 m ²
10. Workshop	Main office area: 210 m ²
11. Warehouse	Near main office: 375 m ²
Comment:	Acceptable

**TABLE 10: PRICES FOR SECTIONS OF THE WORK AS PERCENTAGES OF THE TOTAL BID PRICES
(IN LC)**

Section No.	Description	Engineers Estimate		Bidder No. 3		Bidder No. 4		Bidder No. 6	
		Value	% of Total Est.	Value	% of Bid Price	Value	% of Bid Price	Value	% of Bid Price
0	General	9,209,130	6.0	12,316,101	9.2	13,513,615	9.6	7,973,646	16.6
1	Intake Dam	18,333,401	12.0	17,983,937	13.5	22,600,249	16.1	16,068,377	13.3
1.1	Intake Dam	9,809,193	6.4	9,497,751	7.1	12,260,671	8.7	8,548,845	7.1
1.2	Intake Facilities	7,553,862	4.9	7,621,343	5.7	9,420,896	6.7	6,784,408	5.6
1.3	Check Dam & Drainage	970,346	0.7	864,843	0.7	918,682	0.7	735,124	0.6
2	Waterway	75,957,706	50.4	60,439,350	45.5	60,312,394	43.1	59,690,421	49.4
2.1	Headrace Tunnel	21,559,538	14.1	16,497,668	12.4	16,867,186	12.0	16,271,529	13.5
2.2	Work Adit No.	838,812	0.5	652,234	0.5	677,142	0.5	714,353	0.6
2.3	Headrace Drain Tunnel	1,866,197	1.2	1,417,677	1.1	1,375,131	1.0	1,569,841	1.3
2.4	Penstock Tunnel	7,021,007	4.6	7,407,554	5.6	6,359,329	4.6	5,497,266	4.5
2.5	Work Adit No. 3	4,535,495	3.0	3,559,082	2.7	3,601,876	2.6	3,558,086	2.9
2.6	Tailrace Chamber	2,770,884	1.8	2,643,825	2.0	2,526,599	1.8	2,139,076	1.8
2.7	Tadrace Tunnel	28,376,299	18.6	20,913,339	15.8	20,226,765	14.4	21,623,286	17.9

Section No.	Description	Engineer's Estimate		Bidder No. 3		Bidder No. 4		Bidder No. 6	
		Value	% of Total Est.	Value	% of Bid Price	Value	% of Bid Price	Value	% of Bid Price
2.8	Work Adit No. 4 & 5	3,948,435	2.6	2,716,744	2.0	2,816,024	2.0	3,310,349	2.7
2.9	Tailrace Outlet	1,614,839	1.1	981,769	0.7	1,210,571	0.9	1,407,1656	1.2
2.10	Deregulating Dam	4,426,200	2.9	3,644,458	2.7	4,651,771	3.3	3,598,999	3.0
3	Power Station	37,821,071	24.7	30,793,505	23.1	3,587,834	23.9	28,507,341	23.6
3.1	Powerhouse	20,264,298	13.3	16,414,159	12.3	19,758,437	14.1	15,538,506	12.9
3.2	Access Tunnel	8,445,012	5.5	6,198,076	4.7	6,150,387	4.4	6,139,315	5.1
3.3	Drain Tunnel	1,002,915	0.7	813,393	0.6	840,007	0.6	6,647,457	0.5
3.4	Cable Tunnel	2,569,843	1.7	3,389,238	2.5	2,630,733	1.9	2,089,904	1.7
3.5	Work Tunnels 1 & 2	2,648,020	1.7	1,874,008	1.4	2,127,978	1.5	1,947,299	1.6
3.6	Outdoor Switch yard & Measuring Apparatus	2,890,983	1.8	2,104,629	1.6	2,080,292	1.4	2,194,860	1.8
4	Architectural & Utility Work	7,299,148	4.8	8,364,182	6.3	6,490,238	4.6	5,684,203	4.7
5	Electrical Work	2,328,949	1.5	2,467,616	1.9	2,527,930	1.8	1,699,743	1.4
6	Day Work	968,061	0.6	722,953	0.5	1,235,432	0.9	1,181,067	1.0
	Total	152,917,466	100.0	133,087,644	100.0	140,267,692	100.0	120,804.80	100.0

EXAMPLE 3

BID EVALUATION REPORT

**SUPPLY, DELIVERY AND
INSTALLATION CONTRACT**

**TWO ENVELOPE, TWO STAGE
BIDDING PROCEDURE**

In order to protect the autonomy of the borrowers, executing agencies, and bidders concerned, references to the name of the borrower, the borrower's country and currency, the executing agency, the name and address of the executing agency and the project site, the names of the bidders and bidder's representative, the number and title of the ADB loan have been deleted.

The borrower, the borrower's country, the executing agency, the name and address of the executing agency and the project site, the names of bidder's representatives, and the number and title of the ADB loan have been replaced with combinations of the letter "x" the name of the borrower's currency has been referred to as "Local Currency (LC)", and the bidders have been identified by number and referred to as "Bidder No. 1", "Bidder No. 2", etc.

LETTERHEAD OF THE EXECUTING AGENCY

Our Reference: 62181xxwx006

27 September 2006

Manager
Energy Division, EARD
6 ADB Avenue,
Mandaluyong City 1550, Philippines

Subject: Loan No. xxxx-xxx: xxxxxx Power Station Improvement Project Contract for xxxxxx Power Station Improvement Project Bid No. 15/xxxxxx/06 (CB)

Dear Sir,

In accordance with the provisions of the loan Agreement, we have invited bids for the above contract following the Two Envelope (Two Stage) bidding procedure of the ADB. We are submitting herewith three (3) copies of the Bid Evaluation Report (Technical Proposals) for xxxxxx Power Station Rehabilitation Project, Bid No. 15/xxxxxx/06 (ICB) for the ADB's review and approval.

Your early reply to this matter will be appreciated.

Sincerely yours,

Signed
Deputy Executive Director
xxxxxx

Attachment: Three copies of Report

XXXXXX

**BID EVALUATION REPORT
(TECHNICAL PROPOSALS)**

FOR

XXXXXX POWER STATION REHABILITATION PROJECT

BID No. 15/XXXXXX/06 (ICB)

ADB LOAN No. XXXX-XXX

XXXXXX POWER STATION IMPROVEMENT PROJECT

26 SEPTEMBER 2006

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1. INTRODUCTION

1.1 General

The xxxxxx has received a loan from the Asian Development Bank (ADB) to finance the cost of implementing the improvement program of the existing xxxxxx Power Station. It is intended that part of the proceeds of this loan be used for eligible payments for the supply of equipment, installation, testing and commissioning and related technical services in the rehabilitation and upgrading works of the xxxxxx Power Station for which these bids have been invited. As stipulated in Schedule 4 of the Loan Agreement, the ADB Two-Stage, Two Envelope bidding procedure has been adopted for this procurement.

The Invitation for Bids was advertised in the 22 and 25 April 2006 issues of local English language newspapers, xxxxxx and xxxxxx and in the ADB website on 25 April 2006. A brief report on the advertising, which includes the names of the newspapers, the dates of the advertisements, was forwarded to ADB under cover of xxxxxx's letter dated 28 April 2006. The site visit and pre-bid meeting were held on 5 June 2006 at xxxxxx Power Station as stipulated in the bidding documents. Ten (10) potential bidders out of fifteen (15) firms which purchased the bidding documents attended the site visit and pre-bid meeting. The minutes of the pre bid meeting were prepared and sent to the firms which purchased the bidding documents. As a result of the pre-bid meeting an addendum to the bidding documents was issued on 7 June 2006 to clarify certain aspects of the technical requirements of the bidding documents. Copies of the addendum were forwarded to ADB under cover of xxxxxx's letter dated 9 June 2006.

1.2 Submission of Bids

The closing time for the submission of bids was not extended during (the bidding period and the receipt of bids by the xxxxx was closed at 10:30 AM local time on 25 July 2006 as scheduled. Out of fifteen (15) firms which purchased the bidding documents, seven (7) bidders submitted bids.

1.3 Bid Opening

Bids were opened as scheduled in the bidding documents, at 11:00 AM on 25 July 2006 at the meeting room, second floor of the Administration Building of the xxxxxx Power Station, by the Bid Opening Committee in the presence of representatives of bidders. The bidders' names were announced and recorded. The Bid Opening Committee opened the envelopes of the technical proposals and examined the documents. All the necessary papers, forms and schedules were signed by the members of the Committee. The conditions of the second envelopes containing price proposals were checked thoroughly and signed by the members of the Committee on each of the envelopes. The Record of Bid Opening was prepared soon after the bids were announced and a copy of the Record of Bid Opening was furnished to the ADB under cover of xxxxxx's letter dated 29 July 2006. A copy is attached as **Appendix 1**.

1.4 Basic Data

The key information of the bidding process was collected so that it would be readily available. The basic information pertaining to the bidding was summarized and is presented in **Appendix 2**.

1.5 Bid Evaluation Committee

A Bid Evaluation Committee comprising four senior officers of xxxxxx was established by the Executive Director. The Committee was assisted by the staff of the Administrative Division of xxxxxx Power Station. The Bid Evaluation Committee members were:

- | | |
|----------------------|--|
| (1) Chairman | General Manager, Power Station |
| (2) Member | Chief Engineer, Power Station |
| (3) Member | Director, Planning Department, xxxxxx |
| (4) Member/Secretary | Manager, Finance and Administration, Power Station |

The Committee's decisions have been made on the basis of unanimous views; in case unanimous decisions could not be reached on certain issues, these issues were brought to the attention of the Executive Director of xxxxxx for a decision.

2. EXAMINATION FOR COMPLETENESS OF BIDS

2.1 List of Bidders

The names of the bidders and their nationalities are shown in the following table.

Bidders		
No.	Name	Nationality
1.	Bidder No. 1	xxxxxxxxxx
2.	Bidder No. 2	xxxxxxxxxx
3.	Bidder No. 3	xxxxxxxxxx
4.	Bidder No. 4	xxxxxxxxxx
5.	Bidder No. 5	xxxxxxxxxx
6.	Bidder No. 6	xxxxxxxxxx
7.	Bidder No. 7	xxxxxxxxxx

2.2 Bid Documents (Technical Proposal)

The technical proposals submitted were examined to verify that the bidders had submitted all the documents and information required by the bidding documents. The following were verified:

- (i) Form of Bid for technical proposal and Bill of Quantities (without price);
- (ii) Joint Venture Agreement or Letter of Intent to Enter into an Agreement, if required;
- (iii) Presence of Power of Attorney and Proprietary of Signature;

- (iv) Documents establishing the eligibility of bidders and goods;
- (v) Documents required to assess the qualification of bidders, its manufacturers and subcontractors; and
- (vi) Schedules of particular information and documents required to establish that the goods conform to the bidding documents. The results of checking for completeness of bid documents are presented in Table 1: Examination of Completeness of Bid Documents, and attached as **Appendix 3**.

2.3 Propriety of Signature and Power of Attorney

All documents were signed in accordance with the Instructions to Bidders and corrections were also initialed by the authorized person. The power of attorney for the signatory of each of the bids was acceptable. The information is included in Table 1, **Appendix 3**.

3. DETERMINATION OF SUBSTANTIVE RESPONSIVENESS OF BIDS

3.1 Eligibility of Bidders and Goods

In Clauses 4 and 5 of the Instructions to Bidders of the bidding documents it was specified that the bidder, and the goods and the services to be supplied shall be an eligible source Country of the ADB. All bidders submitted certifications and necessary documentation which indicated that they are nationals of an eligible member country of ADB. Further, all bidders submitted certification that they were not involved in the consulting services associated with this contract (See **Appendix 5**, Table 3 of Substantive Responsiveness of Bids to Commercial Terms).

3.2 Bidders' Qualifications

The bidding documents required, in Clause 19 of the Instructions to Bidders, that each bidder submit with the bid evidence of its technical capability, financial capacity and previous experience in similar works by completing the forms and schedules provided in the bidding document. All bidders submitted due forms and schedules satisfactorily and few requests for additional information and clarifications were required. The detailed review of the information to determine whether the bidder was qualified to perform the requirements of the contract was carried out in accordance with the provisions of the bidding documents. The results of the review were summarized in Table 2: Evaluation of Bidders' Qualifications, and are attached as **Appendix 4**. The findings of the review are briefly presented below.

(a) Bidder No. 1

The financial and technical capacities were sound. Bidder No.1 possesses vast experience in turnkey projects for fossil power plants and also for rehabilitation and renovation works, both at home and abroad. Bidder No. 1 is considered to have satisfactory experience to undertake this contract.

(b) Bidder No. 2

The financial and technical capacities were satisfactory. Bidder No. 2 submitted the list of previous experience which showed that the bidder has extensive experience for fossil power plants both inside and outside of its country. Bidder No. 2 is considered qualified for this contract.

(c) Bidder No. 3

The financial and technical capacities were adequate for the contract. Bidder No. 3 has undertaken and completed quite a number of power plants of different sizes on a turnkey basis both at home and abroad. The bidder submitted documentary evidence of a 110 MW power station of contract value US\$15 million and 3x50 MW power stations of contract value US\$22 million. Bidder No. 3 is considered qualified to undertake this contract.

(d) Bidder No. 4

Bidder No. 4 had satisfactory financial and technical capacity. The lead partner of the consortium is an electricity supply and distribution company and has engineering and project management experience in power plants. However, the lead partner could not provide evidence of its experience in manufacturing and erecting either new power plants or rehabilitation works of a similar nature. The letter of satisfactory performance submitted was from the site engineer for a power transmission project, not from the employer (end user).

Further, although the second partner in the consortium is a power company, both firms failed to provide evidence of their experience in large engineering works carried out outside their home countries, as clearly stipulated in Clause 17.3(a) of the Instructions to Bidders. Therefore, the Bid Evaluation Committee considered that the Bidder No. 4 was not qualified to undertake this contract.

(e) Bidder No. 5

Bidder No. 5 had satisfactory financial and technical capacity. Bidder No. 5 has had satisfactory experience in xxxxx, however, it is unable to produce satisfactory evidence of its experience outside xxxxx, as required in the bidding documents. The experience record submitted was the survey, design and construction of a transmission line for a power distribution system in 1989. The cost of the project was US\$4 million. Such a project could not be considered as large engineering works as specified in Clause 17.3(a) of the Instructions to Bidders. Bidder No. 5 was, therefore, not qualified to undertake this contract.

(f) Bidder No. 6

The financial and technical capacities of Bidder No. 6 were quite strong. The joint venture partner xxxxx has executed several large turnkey power plant projects in xxxxx and abroad including rehabilitation and upgrading of power generating stations. The following are examples:

* Experience at Home		
xxxxx Power Plant	4x200 MW	Turnkey
xxxxx Power Plant (Rehabilitation)		6x200 MW Turnkey
* Experience Abroad		
xxxxx Power Station	2x210 MW	xxxx
xxxxx Power Station	2x250 MW	xxxx

Bidder No. 6 was considered qualified for the contract.

(g) Bidder No. 7

The financial and technical capacities of the joint venture were satisfactory. The joint venture partner xxxxxx possessed good experience in various turnkey fossil power plant projects in xxxxxx. The renovation and expansion of an existing power station (project cost US\$15 million) in xxxxxx in 1991 was considered as large engineering works which satisfied the requirement of Clause 17.3(a) of the instructions to Bidders. Bidder No. 7 was considered qualified to undertake this contract.

3.3 Compliance with Commercial Terms and Conditions

3.3.1 Bid Validity and Bid Security

The bid validity period of at least 180 days from the date of bid opening was specified in the bidding documents. All bidders offered the bid validity period as required. As stipulated in the bidding documents, all bidders confirmed that they had submitted the bid security in their price proposals.

3.3.2 Terms of Payment and Reservations to Commercial Conditions

All bidders accepted the terms and conditions of the bidding documents with respect to payments and also accepted the price adjustment provisions and specified mechanism for the determination of price adjustments. None of the proposals contained serious reservations to the major commercial conditions of the bidding documents. All bidders accepted the provisions for liquidated damages, functional guarantees and the corresponding adjustments, performance security, insurance and other stipulations for the transportation of goods, warranty conditions, and after sales service.

3.3.3 Time for Completion/Contract Execution Schedule

The contract execution schedules and sequence of delivery of major units of plant were evaluated in detail and compared with the requirements of the bidding documents. The contract execution schedules submitted by the bidders were generally in order. All the bidders' proposed contract execution schedules met the completion requirement of 21 months for the total scope of work. However, the completion time for Bidder No. 2 and Bidder No. 6 for the 60 MW system renovation works was two months longer than the specified time of 16 months (See Table 3: Substantive Responsiveness of Bids, **Appendix 5**).

These deviations were considered minor and as such did not result in rejection of the bids. These matters would be brought to the attention of the bidders during discussions on Technical Requirements. In case they have to maintain their proposed schedules because of their technical capabilities, necessary price adjustments would be made in accordance with the stipulated terms of the bidding documents during evaluation of the price proposals.

4. DETAILED EVALUATION FOR TECHNICAL REQUIREMENTS

4.1 Non-Responsive Bids and Responsive Bids

As discussed in Section 3, in particular sub-section 3.2, Bidders' Qualifications, out of the seven (7) bidders who submitted proposals, the bids of five (5) bidders were determined as substantially responsive to the requirements of the bidding documents. The other two (2) bidders were determined as non-responsive as they did not have the minimum experience requirements stipulated in the bidding documents. Their bids were rejected and thus excluded from further evaluation. The list of responsive and non-responsive bidders is as follows:

A. Responsive Bidders

- 1) Bidder No. 1
- 2) Bidder No. 2
- 3) Bidder No. 3
- 4) Bidder No. 6
- 5) Bidder No. 7

B. Non-Responsive Bidders

- 1) Bidder No. 4
- 2) Bidder No. 5

4.2 Evaluation of Technical Requirements of Responsive Bids

The scope of supply, technical information, and data submitted by the bidders were scrutinized in detail and comparisons were carried out with the technical requirements of the bidding documents. All five bidders submitted substantially complete information and generally satisfied the technical requirements of the bidding documents. Because of the nature of the rehabilitation works and the size of the plant involved, many

clarifications and additional information were required to assess the technical acceptability and standards of goods and services offered, and also to assess the completeness of the scope of renovation works. The results of the scrutiny are summarized in Table 4: Salient Technical Features of Bids (technical proposals) and attached as **Appendix 6**. Overall, all the bidders' technical proposals were substantially responsive with minor adjustments required. The minor adjustments required were as follows:

4.2.1. Bidder No. 1

(a) Section 1: Boiler and Auxiliaries

The proposal of Bidder No. 1 gave the complete scope of supply and services with relevant drawings. The detailed lists of piping, valves and instruments were provided. However, due to the nature of the rehabilitation works, these restrictive lists were not acceptable. The lists should be treated as indicative only and Bidder No. 1 must take responsibility to provide any pipes, valves and materials necessary for the rehabilitation.

- (i) Chemical Injection System: more details of the scope of supply were required; and
- (ii) Bidder No.1 guaranteed an efficiency not lower than 89% at MCR for a steam flow at 250 ton/hour, which was less than the 90.5% specified in the bidding documents. This matter would be brought to the attention of Bidder No. 1 and in case this efficiency had to be retained, necessary price adjustment would be made in accordance with the stipulated terms of the bidding documents during evaluation of the price proposals.

(b) Section II: Turbine and Auxiliaries

The proposed performance of Bidder No. I for output and heat rate was as follows:

- Proposed Guaranteed Output: 60 MW
- Proposed Guaranteed Heat Rate: 2,325 kcal/kWh.

These figures were acceptable and in accordance with the specification. The guaranteed heat rate was supported by the heat balance diagram and calculations submitted with the proposal were in accordance with the requirements of the bidding documents.

(c) Section V: New Soot Blower

Bidder No. 1 did not submit any information about the supply and installation of the non-retractable soot blower. Clarification and additional information on this matter would be required.

(d) Section VII: Electrical Equipment

- (i) Battery 110V and 60V
No detailed information was submitted. Leaflets, technical data sheets, and qualification of sub-suppliers, if any, will be required;
- (ii) Generator, Excitation System
More detail regarding the overhaul of the excitation system was required;
- (iii) Protection System of Generator
No detailed information was submitted; and
- (iv) Motors
No detailed information was submitted regarding overhaul of 6.6 kV motors.

(e) Section VIII: Instrumentation and Control Equipment

Process Control and Operation Management System (PCOM)
Bidder No. 1 proposed xxxxxx digital distributed control system, which is regarded as one of the major field-proven digital control systems in the power industry. xxxxxx is equipped with all the functions required and comprehensive relevant technical descriptive material was included. The following points are to be confirmed by Bidder No. 1.

- UPS rating to be adequate for orderly shut down procedure for minimum of one hour.
- PCOM training included in the scope, and details of the PCOM Training program will be submitted.

(f) Section X: Fire Fighting System

Engine Driven Fire Pump with diesel storage tank. The proposal of Bidder No. 1 included the supply of one set of this pump. However, no detailed technical information was submitted. Such information needed to be furnished.

4.2.2 Bidder No. 2.

Bidder No. 2 provided a general description of its supplies and works but information and drawings on the performance of the works and goods were inadequate. Bidder No. 2 limited some quantities of its supplies, which is unacceptable as the bidder is required to take total responsibility for the complete rehabilitation.

(a) Section I: Boiler and Auxiliaries

- (i) Air and Waste Gas System

Dampers – Main characteristics need to be provided.

Chimneys – Materials used for renovation must be suitable for a corrosive environment. Bidder No. 2 did not provide details of its supplier.

(ii) Chemical Injection System

More details of scope of supply and technical data were required.

(iii) Guaranteed Values

Bidder No. 2 guaranteed an efficiency of not less than 90.5%, at MCR after rehabilitation works for a steam flow at 250 ton/hr. However, its guarantee was subject to conditions indicated in the proposal. This conditional guarantee was unacceptable. The conditions need to be withdrawn.

(b) Section 11: Turbine and Auxiliaries

The proposed performance of Bidder No. 2 for output and heat rate were as follows:

- Proposed Guaranteed Output: 60 MW
- Proposed Guaranteed Heat Rate: 2,408 kcal/kWh.

No drop in output from the specified output of 60 MW. However, there is a drop in heat rate from the specified figure by 81 kcal/kWh. Bidder No. 2 did not submit relevant heat balance diagram and calculations. Bidder No. 2 needed to submit heat balance diagram and calculations to support its guaranteed heat rate.

(c) Section III: Steam and Water Cycles

Feed Water Control System

The scope of supply, technical data and drawings were not provided.

(d) Section IV: Ancillary Equipment

(i) Circulating Water System

Bidder No. 2 did not indicate the supply of additional spare parts for the circulating water pumps and also works for the corrosion protection of the circulating water system.

(ii) Hydrogen Cooling Water System

Tubes for Heat Exchangers. Bidder No. 2 did not indicate clearly that it will supply 100% of tubes for heat exchangers and CW pump shaft and accessories. Bidder No. 2 need to provide confirmation and technical data.

(e) Section VI: Circulating Water Intake

(i) Design Parameters

Bidder No. 2 needed to confirm that the intake was designed for the flow rate of 26,000 m³/h at L.W.L. and also that the flow through each screen at L.W.L. was 6,500 m³/h. The design values must be supported by preliminary drawings and calculations.

(ii) Scope of Supply

Bidder No. 2 did not submit detailed information for the supply and installation of the 3 ton derrick type crane. Clarification and additional information was required.

(f) Section VIII: Instrumentation and Control Equipment

(i) PCOM System.

Bidder No. 2 proposed xxxxxx which is considered by the power industry as one of the major field-proven digital distributed control systems. The system is equipped with all the functions required and relevant technical descriptive material was included. The following matters needed to be confirmed by Bidder No. 2:

- Uninterruptible Power Supply (UPS) with the capacity of 25 kVA for one hour will be supplied.
- PCOM training will be included in the scope, and details of the PCOM training program will be submitted.

(ii) Turbine Vibration Alarm System

More detailed information on the scope of supply for the I & C control system needed to be submitted.

(g) Section IX: Hydrogen Generation Plant

- (i) The content of nitrogen, carbon monoxide, carbon dioxide and water in the Hydrogen product needed to be provided by Bidder No. 2;

- (ii) Bidder No. 2 did not provide power consumption per Nm³ of production of Hydrogen gas. The bidder needs to submit guaranteed power consumption; and
 - (iii) The proposal of Bidder No. 2 did not include adequate information on I&C equipment for hydrogen generation plant. The bidder needed to provide the necessary information.
- (h) Section X: Fire Fighting System

The information submitted for the diesel engine driven fire pump and diesel storage tank was not sufficient for evaluation. Clarification and additional technical data needed to be provided.
- (i) Section XVII: Instrumentation and Control
 - (i) Communication System

Leaflets, technical data sheets and descriptive information were submitted along with the qualification information for the sub-supplier. More details of the scope of supply for intercom system and loudspeakers was required.
 - (ii) Fire Alarm System

Bidder No. 2 needed to confirm that spare parts as specified would be included in the scope of supply.

4.2.3 Bidder No. 3

- (a) Section I: Boiler and Auxiliaries
 - (i) Air and Waste Gas System

Bidder No. 3 did not provide sufficient information on the expansion joints for the air and flue gas ducts. The technical data needed to be submitted so as to assess the adequacy of the offer.

 - Main characteristics of dampers needed to be provided.
 - Materials used for chimney renovation must be suitable for corrosive environment. Bidder No. 3 did not provide detailed information.
 - (ii) Chemical Injection System

More details of scope of supply and technical data were required.

(iii) Guaranteed Values

Bidder No. 3 guaranteed an efficiency of not less than 90.5% at MCR after rehabilitation work for a steam flow at 250 ton/h, which was acceptable.

(b) Section II: Turbine and Auxiliaries

The proposed performance of output and heat rate for Bidder No. 3 was as follows:

- Proposed Guaranteed Output: 60 MW
- Proposed Guaranteed Heat Rate: 2,327 kcal/kWh

No drop in output and heat rate from the specified values was proposed. The guaranteed heat rate was supported by the heat balance diagram and calculations.

(c) Section V: New Soot Blower System

In order to evaluate whether the offered equipment was in accordance with the specification, more detailed technical data for the non-retractable soot blowers was required.

(d) Section VI: Circulating Water Intake

The proposal covered the scope of work specified in Section VI of the specification. However, the offer for the following equipment required modifications:

- (i) 1 ton capacity for the derrick crane was proposed instead of 3 ton capacity; and
- (ii) A spray water pump of 135 m³/h was proposed. The proposed capacity was too small to meet the requirements of the specification (210 m³/h).

(e) Section VII: Electrical Equipment

No detailed information for power transformers, generator (rotar/static and excitation) and protection system for generator were submitted with the proposal. However, Bidder No. 3 indicated that the equipment would meet the requirements of the specification. Bidder No. 3 needed to provide detailed information to confirm that the offered equipment met the specification.

(f) Section VIII: Instrumentation & Control Equipment

(i) PCOM System

Bidder No. 3 proposed xxxxxx (see comments in the proposal of Bidder No. 2). The following matters needed to be confirmed by Bidder No. 3:

- UPS rating to be adequate for orderly unit shut down procedure for minimum of one hour.
- To provide detailed information for 30% hard-wired back-up control facility.

(ii) Field Instrumentation

Bidder No. 3 would be requested to confirm that all the erection materials associated with I & C equipment installation and replacement (i.e. cable, impulse piping, etc.) were included in the scope of supply.

(iii) Turbine Vibration Alarm System and Turbine Shaft Displacement Monitoring System.

More detailed information on the scope of supply for these two systems needed to be submitted.

(g) Section IX: Hydrogen Generation Plant

The proposed performance figures provided by Bidder No. 3 were in compliance with the specification and the proposal included all the scope of work specified. Power consumption of electrolyzer ($3\text{kWh}/\text{Nm}^3$) was the lowest power consumption rate proposed by bidders.

Hydrogen Gas Dryer. The specification required absorption type gas dryers whereas Bidder No. 3 proposed condensing type. This type has lower performance than absorption type. As the bidder confirmed that the water content is less than $6.2\text{ mg}/\text{Nm}^3$ specified in the bidding documents, the proposed dryers would be acceptable.

(h) Section X: Fire Fighting System

(i) Technical data for diesel oil service tank for engine driven fire pump was required;

(ii) Bidder No.3 would be requested to clarify whether chemicals for test of portable Extinguishers were included in the scope of supply; and

(iii) Water Storage Tanks. The specification required water storage tanks for fire fighting with a total capacity of at least 700 m^3 (2 Nos. 350 m^3 each) with corrosion allowance of 3mm. However, the bidder's proposed tanks had only 600m^3 capacity (2 Nos. 300 m^3 each) with corrosion allowance of 2mm. Bidder No. 3 would be requested to modify the proposed tanks to meet the specification.

(i) Section XI: Water Treatment Plant

Bidder No. 3 would be requested to submit guaranteed minimum efficiency of (i) potable water booster pumps, (ii) potable water transfer pumps, and (iii) neutralize pumps supported by pump performance curves of the manufacturers.

(j) Section XVII: Instrumentation and Control

(i) Fire Alarm System

Bidder No. 9 would be requested to confirm that spare parts specified for the fire alarm system were included in the scope of supply.

4.2.4 Bidder No. 6

(a) Section 1: Boiler and Auxiliaries

(i) Air and Waste Gas System

Bidder No. 6 did not provide sufficient information on the expansion joints for the air and flue gas ducts. The technical data needed to be submitted so as to assess the adequacy of the offer.

Dampers - Main characteristics of dampers needed to be provided.

Chimney - Bidder No. 6 would be requested to submit detailed information for the materials to be used in chimney renovation so as to verify the suitability of these materials for a corrosive environment.

(ii) Bidder No. 6 guaranteed an efficiency of not less than 90.5% at MCR after rehabilitation for a Steam Flow of 250 ton/h.

(b) Section II: Turbine and Auxiliaries

The proposed performance figures for Bidder No. 6 are as follows:

- Proposed Guaranteed Output: 60 MW
- Proposed Guaranteed Heat Rate: 2,470 kcal/kWh.

No drop in output from the specified output of 60 MW was proposed, however, the drop in heat rate from the specified figure is 143 kcal/kWh. Bidder No.6 did not submit a relevant heat balance diagram and calculations. The bidder needed to submit a heat balance diagram and calculations to support its guaranteed heat rate. In case Bidder No. 6 could not improve the guaranteed heat rate, necessary price adjustment would be

made in accordance with the stipulated terms of the bidding documents during the evaluation of price proposals.

(c) Section III: Steam and Water Cycle

The proposal included most of the scope of work specified and complied with the requirements of the specification. However, it was not clear in the proposal whether the thermal insulation for the de-aerator and feed water tank were included. Bidder No. 6 needed to confirm that the thermal insulation was included.

(d) Section VII: Electrical Equipment

(i) Battery 110V and 60V

No detailed technical data was submitted. Leaflets, technical data sheets and qualification of sub-supplier, if any, needed to be supplied; and

(ii) Motors

No detailed information for overhaul of 6.6 kV motors was provided. Such information needed to be supplied.

(e) Section VIII: Instrumentation and Control Equipment

(i) PCOM System

Bidder No. 6 proposed xxxxxx (see comments in the proposal of Bidder No. 2).

The following matters need to be clarified by Bidder No. 6:

- Breakdown of I/O quantity (i.e., closed loop control, open loop control, monitoring, burner management, etc. according to its usage).
- Detailed information for 30% hard-wired back-up control facility.
- UPS rating to be adequate for orderly shut down procedure for minimum of one hour.

(ii) Field Instrumentation

Bidder No. 6 needed to confirm that all the erection materials associated with I & C equipment installation and replacement (i.e. cable, impulse piping, etc.) were included in the scope of supply.

- (f) Section X: Fire Fighting System
- (i) More detailed technical information for the diesel engine driven fire pump such as rating, design head, quantity, efficiency and performance curves were required; and
 - (ii) Bidder No. 6 needed to confirm that the pipes and material for the underground fire service mains are DCI from an acceptable manufacturer.
- (g) Section XIII: Miscellaneous Rehabilitation Works
- Mobile Equipment
- Capacities of the bidder's proposed mobile crane (15 ton) and trucks (3 ton) were less than specified (i.e. mobile crane 20 ton and trucks 5 ton). Bidder No. 6 needed to propose a mobile crane and trucks which met the requirements of the specification.
- (h) Section XVII: Instrumentation and Control
- Fire Alarm System
- Bidder No. 6 needed to confirm (list spare parts as specified were included in the scope of supply).

4.2.5 Bidder No. 7

- (a) Section 1: Boiler and Auxiliaries
- (i) Bidder No. 7 submitted a proposal with a detailed description of its supplies and works for the renovation or the boiler and auxiliaries component of the contract. As in the case of Bidder No. 2, Bidder No.7 submitted a detailed list of piping, material, valves and instruments. Because of the nature of the rehabilitation works, Bidder No. 7 needed to confirm that the lists submitted were indicative only and any pipes, valves and materials required or the rehabilitation would be provided;
 - (ii) Bidder No. 7 guaranteed an efficiency of not less than 90.5% at MCR after rehabilitation works for a steam flow at 260 ton/h, while the specification requirement is only 250 ton/h; and
 - (iii) Bidder No. 7 needed to confirm with supporting documentation that there was no risk of corrosion on the gas ducts and air heaters.
- (b) Section II: Turbine and Auxiliaries
- The proposed performance of Bidder No. 7 for output and heat rate were as follows:

- Proposed Guaranteed Output: 60 MW
- Proposed Guaranteed Heat Rate: 2,470 kcal/kWh

The guaranteed heat rate was supported by the heat balance diagram and calculations in accordance with the specification. No drop in output of the turbine as specified; however, the guaranteed heat rate was 143 kcal/kWh higher than the figure (2,327 kcal/kWh) specified in the bidding documents. This matter would be brought to the attention of Bidder No. 7 and if the guaranteed heat rate could not be improved, necessary price adjustment would be made in accordance with the stipulated terms of the bidding documents, during the evaluation of price proposals.

(c) Section VII: Electrical Equipment

(i) Lighting System

Although Bidder No. 7 indicated that it would supply and install the lighting system as per specifications, it did not provide detailed information regarding scope and technical data. Bidder No. 7 needed to provide this information so as to verify its compliance with the specifications.

(d) Section VIII: I & C Equipment

(i) PCOM System

Bidder No. 7 proposed its xxxxxx distributed digital control system which is considered by the power industry as one of the major field proven distributed digital control systems. The following matters need to be confirmed by Bidder No. 7:

- Detailed information of 30% hard-wired back-up control facility.
- UPS rating to be adequate for orderly unit shut down procedure for minimum of one hour.
- PCOM training to be included in the scope, and details of PCOM training program to be submitted.

(ii) Field Instrumentation

Bidder No. 7 needed to confirm that all the erection materials associated with the I & C equipment installation and replacement were included in the scope of supply.

(e) Section 1X: Hydrogen Generation Plant

Bidder No. 7 stated in the proposal that 1 & C equipment would be supplied as per specification. However, no detailed information was submitted. Bidder No. 7 needed to provide this information.

(f) Section X: Fire Fighting System

(i) Underground Fire Service Mains

Bidder No. 7 needed to confirm that the pipes and material for the mains would be DCI pipes from an acceptable manufacturer; and

(ii) Bidder No. 7 needed to provide detailed technical information on portable and wheeled fire extinguishers and to confirm that chemicals for testing of portable extinguishers were included in the scope of supply.

(g) Section XVII: Instrumentation and Control

(i) Communication System

Bidder No. 7 needed to provide leaflets, technical data, and descriptive information, including qualification information, for the suppliers of PABX, telephone, intercom and loud speaker systems.

(ii) Fire Alarm System

Bidder No. 7 needed to confirm that spare parts as specified were included in the scope of supply.

4.3 Clarifications and Discussions

The findings of the detailed evaluation of the technical documents submitted by the responsive bidders as summarized in paragraphs 4.2.1 to 4.2.5 were sent to the respective bidders with the request to submit the necessary clarifications, additional information, changes and modifications of their proposed equipment and materials, where necessary, so as to satisfactorily conform with the technical requirements of the bidding documents. The bidders were given about two weeks to submit these documents. All five (5) qualified bidders complied with the request. Clarification meetings with all bidders were held on 18 and 19 September 2006 to resolve any outstanding matters. The additional documents submitted by the bidders and further clarifications made by the representatives of bidders at clarification meetings, resulted in their technical proposals conforming to acceptable technical standards and meeting the technical requirements of the bidding documents. The five (5) bidders were instructed in writing that a supplementary price proposal, if they considered it necessary, should be submitted at the clarification meetings scheduled on 18 and 19 September 2006.

They were clearly advised in the letters that they may submit supplementary price proposals according to the changes, revisions and modifications made to their original technical proposals. Bidders were warned that supplementary price proposals were limited to those bid items which were involved in the changes, revisions, or modifications to the original technical proposals. Only two bidders, Bidder No. 1 and Bidder No. 2, submitted supplementary price proposals.

5. CONCLUSIONS AND RECOMMENDATIONS

On the basis of the analysis of the technical proposals presented in this Report, it is concluded that:

- (a) Bidder No. 4 and Bidder No. 5 did not have the minimum experience requirements stipulated in the bidding documents. Therefore, it was recommended that their bids should be rejected and their price proposal envelopes should be returned unopened;
- (b) The original technical proposals supplemented by clarifications, additional information, changes and modifications, where necessary, of the following bidders were considered responsive to the requirements of the bidding documents:
 - 1. Bidder No. 1
 - 2. Bidder No. 2
 - 3. Bidder No. 3
 - 4. Bidder No. 6
 - 5. Bidder No. 7
- (c) It was recommended that the above five (5) bidders be informed that their technical proposals, supplemented by additional information, changes and modifications submitted during the evaluation of the technical proposals, were considered responsive to the bidding documents.

RECORD OF BID OPENING

Loan No. xxxx-xxx
 Bid No. 15/xxxxx /06 (ICB)

Project Title : xxxxx Power Station Improvement Project
 Bid Title : xxxxx Power Station Rehabilitation Project

1. The following bids were received by the closing deadline on 25 July 2006 at 10:30 AM and were publicly opened and announced at 11.00 AM on the same date. The following seven (7) bidders submitted both "Technical Proposal" and "Price Proposal" in separate envelopes as per instructions of the bidding documents.

Bid No.	Name of Bidder Nationality	Technical Proposal	Price Proposal	Signature
1	Bidder No. 1	Yes	Yes	Signed
2	Bidder No. 2	Yes	Yes	Signed
3	Bidder No. 3	Yes	Yes	Signed
4	Bidder No. 4	Yes	Yes	Signed
5	Bidder No. 5	Yes	Yes	Signed
6	Bidder No. 6	Yes	Yes	Signed
7	Bidder No. 7	Yes	Yes	Signed

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2. The following bidders' representatives attended the public opening of bids and a copy of the attendance sheet is attached as an annexure of this record.

Bidder No.	Name	Designation	Bidding Company Represented
1.	Mr. xxxxxx	Manager Asia Office	Bidder No. 1
2.	Mr. xxxxxx	Deputy Director International Marketing Division	Bidder No. 2
3.	Mr. xxxxxx	Deputy Chief Overseas Section	Bidder No. 3
4.	Mr. xxxxxx	Chief Mechanical Engineer	Bidder No. 4
5.	Mr. xxxxxx	Deputy Director South East Asia Region	Bidder No. 5
6.	Mr. xxxxxx	Manager Local Branch Office	Bidder No. 6
7.	Mr. xxxxxx	Technical Manager Planning & Design	Bidder No. 7

3. Matters transpiring during the opening of bids.

The Bid Opening Committee members and the respective representative of the bidders examined the scaling and marking of each of the Price Proposal envelopes and signed the envelope. It was noted that there were no serious defects in respect to the sealing and marking of the envelopes.

4. Reading and signing of documents ended at 12:00 hrs.

Signed
Member
Chief Engineer
xxxxx Power Station

Signed
Chairman
General Manager

Signed
Member
Director, Planning Dept.
xxxxxx

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ATTENDANCE SHEET AT OPENING OF BIDS

Loan No. xxxx-xxx
Bid No. 15/xxxxxx/06 (ICB)
Place: Meeting Room
Second Floor
Administration Building
xxxxx Power Station

Project title : xxxxxx Power Station Improvement Project
Bid title : xxxxxx Power Station Rehabilitation Project
Date: 25 July 2006; Time: 11: 00 AM

The following bidders representatives attended the public opening of bids.

Bidder No.	Bidders	Representative		Signature
		Name	Designation	
1.	Bidder No. 1	Mr. xxxxxx	Manager Asia Office	Signed
2.	Bidder No. 2	Mr. xxxxxx	Deputy Director International Marketing	Signed
3.	Bidder No. 3	Mr. xxxxxx	Deputy Chief Overseas Section	Signed
4.	Bidder No. 4	Mr. xxxxxx	Chief Mechanical Engineer	Signed
5.	Bidder No. 5	Mr. xxxxxx	Deputy Director South East Asia Region	Signed
6.	Bidder No. 6	Mr. xxxxxx	Manager, Local Branch Office	Signed
7.	Bidder No. 7	Mr. xxxxxx	Technical Manager Planning & Design	Signed

Appendix 2

BASIC DATA SHEET

1.	Project Title	xxxxxx Power Station Improvement Project
2.	Loan Number	xxxx xxx
3.	Bid Title	xxxxxx Power Station Rehabilitation Project
4.	Bid Number	15/xxxxxx/06 (ICB)
5.	Estimated Value	US\$ 10,585,000.00 (LC 446,697,600)
6.	Date Invitation for Bids Issued	22 April 2006
7.	Mode of Procurement	International Competitive Bidding Two Stage, Two Envelope Bidding Procedure
8.	Bid Closing Date and Time	10:30 AM on 25 July 2006
9.	Bid Opening Date and time	11:00 AM on 25 July 2006
10.	Number of Bids Received	Seven (7) Bids
11.	Bid Validity Expires	21 January 2007 (180 days)
12.	Date for Determining Applicable Exchange Rates	(Not Applicable)

Appendix 3

TABLE 1: EXAMINATION OF COMPLETENESS OF BID DOCUMENTS

Item	Description	Bidder No.						
		1	2	3	4	5	6	7
1	Bid Documents (Technical Proposal)							
1.1	One original and two copies	Y	Y	Y	Y	Y	Y	Y
1.2	Form of Bid for Technical Proposal	Y	Y	Y	Y	Y	Y	Y
1.3	Bill of Quantities (without pricing)	Y	Y	Y	Y	Y	Y	Y
1.4	Schedules of Particular Information							
	(1) Contract Execution Schedule	Y	Y	Y	P ¹	Y	Y	Y
	(2) Financial Data	Y	Y	Y	Y	Y	Y	Y
	(3) Technical Data	Y	Y	Y	P ¹	Y	Y	Y
	(4) Bidders' Organization	P ¹	P ¹	Y	N	Y	Y	Y
	(5) References from Previous Employers							
1.5	Drawings and Documents to be submitted with bid	Y	Y	Y	P ¹	Y	Y	Y
1.6	Joint Venture Agreement or Formal Letter of Intent to Enter into a Joint Venture Agreement	NA	NA	NA	Y	NA	Y	Y
2	Propriety of Signature and Completeness	Y	Y	Y	Y	Y	Y	Y
2.1	Power of Attorney	Y	Y	Y	Y	Y	Y	Y
2.2	Bid Form (Technical Proposal), Schedules, properly signed or not	Y	Y	Y	Y	Y	Y	Y
2.3	Completeness of Bids	Y	Y	Y	Y	Y	Y	Y

Y = Yes

N = No

P = Partial

NA = Not Applicable

¹ Provide details

Appendix 4

TABLE 2: EVALUATION OF BIDDERS' QUALIFICATIONS

Bidder No.	Qualification Criteria										Remarks		
	Pending Litigation:	Turnover	Net Worth	Cash Flow Capacity	Experience	Project Manager (1 staff) Five Years Experience	Technicians (3 staff) Five Years Experience	Design Engineer (1 staff) Five Years Experience					
1	Must represent more than 50% of Bidder's Net Worth	\$3.5 Million	Must be Positive for the last three years	\$6.0 Million	Experience In At Lease One Similar Contract In the Last Three Years (Value of \$7.0 Million)	Pass	Pass	Pass	Pass	3 staff (one with 7 yrs experience, one with 6 yrs experience, and 1 with 5 yrs experience)	1 staff with 10 years experience	Pass	Qualified
2	No pending litigation	\$4.0 Million	+5.0 Million	\$6.6 Million	Three contracts (one contract valued at \$7.5 Million, one contract valued at \$6.0 Million, and one contract valued at \$5.5 Million)	Pass	Pass	Pass	Pass	3 staff (all with five years experience)	1 staff with 8 years experience	Pass	Qualified
3	No pending litigation	\$4.1 Million	+3.8 Million	\$6.2 Million	Three contracts (one contract valued at \$7.3 Million, one contract valued at \$7.0 Million, and one contract valued at \$6.5 Million)	Pass	Pass	Pass	Pass	3 staff (each staff with six years experience)	1 staff with 9 years experience	Pass	Qualified
4	Pending litigation is equivalent to 10% of Net Worth	\$3.8 Million	+2.9 Million	\$6.1 Million	Two contracts (one contract valued at \$15.0 Million, one contract valued at \$6.0 Million, and one valued at \$5.5 Million)	Pass	Pass	Pass	Pass	3 staff (each staff with five years experience)	1 staff with 5 years experience	Fail	Disqualified
5	No pending litigation	\$3.7 Million	+8.8 Million	\$6.1 Million	Three contracts (one valued at \$7.5 Million, one valued at \$6.0 Million, and one valued at \$5.5 Million)	Pass	Pass	Pass	Pass	3 staff (each staff with six years experience)	1 staff with five years experience	Pass	Disqualified
6	No pending litigation	\$3.9 Million	+7.5 Million	\$6.1 Million	Three contracts (one valued at \$7.5 Million, one valued at \$6.0 Million, and one valued at \$5.5 Million)	Pass	Pass	Pass	Pass	three staff (each staff with eight years experience)	1 staff with eight years experience	Pass	Qualified
7	No pending litigation	\$4.5 Million	+3.2 Million	\$6.5 Million	Three contracts (one valued at \$7.5 Million, one valued at \$6.0 Million, and one valued at \$5.5 Million)	Pass	Pass	Pass	Pass	three staff (each staff with seven years experience)	1 staff with seven years experience	Pass	Qualified

Appendix 5

**TABLE 3: SUBSTANTIVE RESPONSIVENESS OF BIDS
(COMMERCIAL TERMS)**

Sr. No.	Requirements	Bidding Doc. Reference	Bidder No.						
			1	2	3	4	5	6	7
1.	Power of Attorney	Section I, Clause 22.3 Section II, ITB 22.3	C	C	C	C	C	C	C
2.	Signature on Bid Form and Schedule	Section I, ITB 22.3 Section II, ITB 22.3	C	C	C	C	C	C	C
3.	Joint Venture Agreement or Formal Intent to Enter into an Agreement	Section I, Clause 4.1	NA	NA	NA	C	NA	C	C
4.	Eligibility (a) Bidder (b) Goods and Services	Section I, Clause 4 (See attachment to this Appendix) Section I, Clause 5	C C	C C	C C	C C	C C	C C	C C
5.	Bid Validity 180 days	Section 1, Clause 20.1 Section II, ITB 20.1	C	C	C	C	C	C	C
6.	Price Adjustment Method and Provisions	Section I, Clause 14.8, Section VIII, GCC 15.2 Section II, ITB 14.8	C	C	C	C	C	C	C
7.	Terms of Payment	Section VIII, GCC 16.1	C	C	C	C	C	C	C
8.	Functional Guarantees	Section VI	C	C	C	C	C	C	C
9.	Major Equipment Maker	Section V	NI NI xxxxx xxxxx	xxxxx xxxxx xxxxx xxxxx	xxxxx xxxxx xxxxx xxxxx	NI NI xxxxx xxxxx	NI NI xxxxx xxxxx	xxxxx xxxxx xxxxx xxxxx	xxxxx xxxxx xxxxx xxxxx
10.	Contract Execution Schedule Completion 21 months - 60MW Unit (18 months)	Section VI	Yes Yes	Yes 18	Yes Yes	Yes Yes	Yes Yes	Yes 18	Yes . Yes
	CONCLUSION		R	R	R	R	R	R	R

C - Complied,
R = Responsive

NC = Not Complied
NR = Not Responsive

NA = Not Applicable
NI = Not Indicated; clarification will be required

**TABLE 4: SALIENT TECHNICAL FEATURES OF BIDS
(TECHNICAL PROPOSALS)**

Legend	Description
Yes	Fulfilled Scope of Works and/or Meets Required Specifications
FC	As above but the matter requires Further Clarification or Confirmation
NI	No Information provided in the bid.
No	Not Fulfilled Scope of Work or did Not Comply with Specifications

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
PART A	Boiler & Auxiliaries					
1.	60 MW System					
(1)	Pressure Part - Pipes, Tubes, Valves - Boiler Safety Valves	FC	Yes	Yes	Yes	FC
(2)	Air & Waste Gas System - Flue Gas Air Heater - ID Fan - Flue Gas Ducts - Others; Chimney Light Dampers, Servo Motor	Yes Yes Yes Yes	Yes Yes Yes Yes	Yes Yes FC FC	Yes Yes FC Yes	Yes Yes Yes Yes
(3)	Steel Structures	Yes	Yes	Yes	Yes	Yes
(4)	Fuel System - Burners - High & Low Pressure Pumps & Piping	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
(5)	Chemical Injection System	FC	FC	FC	Yes	Yes
(6)	Boiler Crane & Lift	Yes	Yes	Yes	Yes	Yes
(7)	Insulation	Yes	Yes	Yes	Yes	Yes
(8)	ID Fans - Type Axial - Capacity 252 x 10 ³ m ³ /h	Yes Y's	Yes Yes	Yes Yes	Yes Yes	Yes FC
(9)	Instrumentation & Control	Yes	Yes	Yes	Yes	Yes
(10)	Guaranteed Values - Flow Output 250 ton/h - Efficiency 90.5%	Yes No	Yes FC	Yes Yes	Yes Yes	Yes Yes
II.	Turbine & Auxiliaries					
(1)	Performance - Maximum Continuous Rating 60 MW - Main Stem Temp. 535°C - Final Feed Water Temp. - Condensed Vacuum - Cooling Water Temp. Max. 35 °C - Guaranteed Heat Rate 2,327 kcal/kWH	Yes Yes 230.4 0.09 Yes FC	Yes NI NI VI NI FC	Yes Yes 222.3 0.12 30 Yes	Yes Yes 220 0.07 NI FC	Yes Yes 224 0.11 Yes FC

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
II.(cont.) (2)	Scope of Work 2.1 Turbine lint - On Site Overhaul - Off-site repair kW Rotor and LP Rotor 2.2 Lube Oil and lacking Oil System - LO Cooler Tube Bundle - Lube Oil 12,000 L - Bearings - Jacking Oil System 2.3 Extraction Steam System & Gland Sealing System 2.4 Condenser & Accessories 2.5 Steam and all inter Connecting Pipe Works 2.6 Turbine Protection I & C System	 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	 NI Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
III. (1) (2) (3) (4) (5) (6) (7) (8)	Steam & Water Cycle Overhaul of Existing System Condensate Pumps - 2 sets Low Pressure Heaters Deaerator & Feed Water Tank Feed Water Pump High Pressure Heaters Feed Water Control Station Steam Pressure Reducing Stations - 4 Nos. Instrumentation & Control	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes No Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes FC Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes
IV (1) (2) (3) (4)	Ancillary Equipment Rehabilitation of Cranes in Turbine House & CW Pump House Circulating Water System - Overhaul of CW Pumps - Additional Spare Parts - Corrosion Protection Hydrogen Cooling Water System - 100% Tube of Heat Exchanges - CW Pump Shaft & Accessories Air Conditioning System	Yes Yes Yes Yes Yes Yes Yes	Yes Yes No No FC FC Yes	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes
V. (1) (2) (3) (4)	New Soot Blower System Long Retractable Soot Blower (4 or 8 Nos.) Non Retractable Stint Blower Pressure Reducing Station with Piping and VA Galleries and Stairs	Yes No Yes Yes	Yes 4 (Yes) Yes Yes	Yes FC Yes Yes	Yes 8 (Yes) Yes Yes	Yes 8 (Yes) Yes Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 4	Bidder No. 7
VI.	Circulating Water Intake					
(1)	Design Parameter					
	- Total Flow Rate 26,000 m ³ /h	Yes	NI	Yes	Yes	Yes
	- Flow through each Screen at L.W.L. 6,500 m ³ /h	Yes	NI	Yes	Yes	Yes
	- Drift across Screen Max. 150mm	Yes	FC	Yes	Yes	Yes
	- Clogged Screen Area 25%	Yes	FC	Yes	Yes	Yes
(2)	Scope of Work					
	2.1 Travelling Band Screen 4 sets	Yes	Yes	Yes	Yes	Yes
	2.2 Coarse Bar Screen 4 sets	Yes	No	Yes	Yes	Yes
	2.3 Screen Back Wash Pumps 2 sets	Yes	Yes	No	Yes	Yes
	2.4 Derrick Type Crane, 1 set of 3t	Yes	FC	No	Yes	Yes
	2.5 Portable Sump Pumps, 2 sets	Yes	N1	Yes	Yes	Yes
	2.6 All Civil Works	Yes	Yes	Yes	Yes	Yes
VII.	Electrical Equipment					
(1)	6.6 kV Switchgear					
	1.1 Overhaul of 6.6 kV Switchgear	Yes	Yes	Yes	Yes	Yes
	1.2 Air compressor w/Accessories	Yes	Yes	Yes	Yes	Yes
(2)	Battery - 60V and 110V					
	2.1 250 AH Lead Acid Battery (110V)	FC	Yes	Yes	FC	Yes
	2.2 90 AH Lead Acid Battery (60 V)	FC	Yes	Yes	FC	Yes
	2.3 60V Battery Charger with Accessories	FC	Yes	Yes	Yes	Yes
	2.4 110V Battery Charger with Accessories	FC	Yes	Yes	Yes	Yes
(3)	Power Transformers	Yes	Yes	FC	Yes	Yes
(4)	Generator					
	4.1 Stator/Rotor	Yes	Yes	FC	Yes	Yes
	4.2 Excitation System/AVR					
	- Field Breaker	Yes	Yes	FC	Yes	Yes
	- Overhaul P. System	FC	Yes	FC	Yes	Yes
	4.3 Protection System					
	- Overhaul of P. System	FC	Yes	FC	Yes	Yes
	- Protection Relay and CT	FC	Yes	FC	Yes	Yes
(5)	Motors					
	5.1 6.6 kV Motor					
	- Overhaul of Motor	FC	Yes	Yes	FC	Yes
	- CTs and Ammeters	FC	Yes	Yes	FC	Yes
	5.2 0.4kV and DC Motors	Yes	Yes	Yes	Yes	Yes
(6)	Lighting System					
	Boiler House	Yes	Yes	Yes	Yes	FC
	Cooling Water Pump House	Yes	Yes	Yes	Yes	FC

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. B	Bidder No. 7
VIII.	I and C Equipment					
(1)	PCOM Dual	Yes	Yes	Yes	Yes	Yes
	1.1 Process Control Station	Yes	Yes	Yes	Yes	Yes
	1.2 Operator interface Station	Yes	Yes	Yes	Yes	Yes
	1.3 Communication System	Yes	Yes	Yes	Yes	Yes
	1.4 Engineering Work Station	Yes	Yes	Yes	Yes	Yes
	1.5 Printer	Yes	Yes	Yes	Yes	Yes
	1.6 Control Desk	Yes	Yes	Yes	Yes	Yes
	1.7 Backup Control Panel	Yes	Yes	Yes	Yes	Yes
	1.8 DCS Furniture	Yes	Yes	Yes	Yes	Yes
	1.9 Marshalling Rack	Yes	Yes	Yes	Yes	Yes
	1.10 Uninterruptible Power Supply	FC	FC	FC	FC	FC
(2)	PCOM Software	Yes	Yes	Yes	Yes	Yes
(3)	PCOM Spare Parts and Consumables	Yes	Yes	Yes	Yes	Yes
(4)	Training for PCOM	FC	FC	Yes	Yes	FC
(5)	Pressure and Diff. Pressure Transmitters	Yes	Yes	Yes	Yes	Yes
(6)	Pressure Gauges	Yes	Yes	Yes	Yes	Yes
(7)	Temperature Instruments & Gauges	Yes	Yes	Yes	Yes	Yes
(8)	Turbine Vibration Alarm System	Yes	FC	FC	Yes	Yes
(9)	Turbine Shaft Displacement Monitoring System	Yes	Yes	FC	Yes	Yes
PART B	Supporting System					
IX.	Hydrogen Generation Plant					
(1)	Demolition of Existing System	Yes	Yes	Yes	Yes	Yes
(2)	Main Cycle Equipment					
	2.1 Requirements					
	- Type: Electrolytic	Yes	Yes	Yes	Yes	Yes
	- Type of Electrolyte NaOH (or) KOH	Yes	Yes	Yes	Yes	Yes
	- Production Rate: 8Nm ³ /h	Yes	Yes	Yes	Yes	Yes
	- Quality:					
	Hydrogen 99%	Yes	Yes	Yes	Yes	Yes
	Oxygen <10 ppm	Yes	Yes	Yes	Yes	Yes
	Nitrogen <500 ppm	Yes	NI	Yes	Yes	Yes
	Carbon Monoxide <10 ppm	Yes	NI	Yes	Yes	Yes
	Co ₂ <10 ppm	Yes	NI	Yes	Yes	Yes
	H ₂ O <6.2 mg/Nm ³	Yes	NI	Yes	Yes	Yes
	- Power Consumption <5 kwh/Nm ³	No	NI	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
IX (cont.)	2.2 Electrolytic Cell	Yes	Yes	Yes	Yes	Yes
	2.3 Hydrogen Gas Compressors & Gas Dryer	Yes	Yes	Yes	Yes	Yes
	2.4 Gas Filing Station and Gas Holders for 7 days Operation	Yes	Yes	Yes	Yes	Yes
	(3) Electrical Equipment	Yes	Yes	Yes	Yes	Yes
	(4) Control & Instrumentation Equipment	Yes	NI	Yes	Yes	FC
	(5) - Local Control Panel - Open Loop Control & Protection - Closed Loop Control Chemical & Chemical Laboratory	Yes Yes Yes	NI NI NI	Yes Yes Yes	Yes Yes Yes	FC FC FC
X.	Fire Fighting System					
(1)	Overhaul of Existing System	Yes	Yes	Yes	Yes	Yes
(2)	Water Storage Tank, Filling Pumps & Pipe Works	Yes	Yes	FC	Yes	Yes
(3)	Engine Driven Fire Pump w/Diesel Storage Tank (1 set) (300 m ³ /h and 9.8 bar)	FC	FC	FC	FC	Yes
(4)	Motor Driven Jockey Pump (1 set) (10 m ³ /h, 9.8 bar)	Yes	Yes	Yes	Yes	Yes
(5)	Underground Fire Service Maitre (min. size 150mm, DCI pipes)	Yes	Yes	Yes	FC	FC
(6)	Yard Hydrants and Hose Cabinets (min. 14 sets)	Yes(16)	Yes(15)	Yes(16)	Yes(15)	Yes(14)
(7)	Standpipe Systems & Cabinets (min. 35 sets)	Yes(35)	Yes(35)	Yes(36)	Yes(35)	Yes(37)
(8)	Foam System for Tank Cooling	Yes	Yes	Yes	Yes	Yes
(9)	Water Spray Fixed System for Transformers	Yes	Yes	Yes	Yes	Yes
(10)	Sprinkler System for Fire Fighting Pump Boom	Yes	Yes	Yes	Yes	Yes
(11)	Portable Fire Extinguishers & Wheeled Fire Extinguishers	Yes	Yes	FC	Yes	FC
XI.	Water Treatment Plant					
(1)	Pre-treatment Plant (Pumps & Blower)	Yes	Yes	Yes	Yes	Yes
(2)	Demineralized WT. Plant					
	- Pumps and Blowers	Yes	Yes	Yes	Yes	Yes
	- Sumps and Tanks	Yes	Yes	Yes	Yes	Yes
	- Pipes and Valves	Yes	Yes	Yes	Yes	Yes
(3)	Potable W.T. Unit 20m ³ /h & Potable W/ Storage Tank 40m ³ Capacity	Yes(20) Yes	Yes(20) Yes	Yes(20) Yes	Yes(20) Yes	Yes(25) Yes

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Section	Description	Bidder No. 1	Bidder No.2	Bidder No. 3	Bidder No. 6	Bidder No. 7
XI. (cont.)						
(4)	General Replacements					
	4.1 Chlorination Dosing Station 2 No. Tank (2 m ³) & Pumps	Yes	Yes	Yes	Yes	Yes
	4.2 Potable w/ Booster Pumps (25 m ³ /h,30m & Eff. 70%)	Yes (Eff.74%)	Yes (Eff.70%)	Yes NI	Yes (Eff.72%)	Yes (Eff.70%)
	4.3 Potable W/Transfer Pumps (20 m ³ /h,40m & Eff. 70%)	Yes (Eff.74%)	Yes (Eff.70%)	Yes NI	Yes (Eff.72%)	Yes (Eff.70%)
	4.4 Neutralization Pumps (120m ³ /h, 20m Eff. 70%)	Yes (Eff.75%1)	Yes (Eff. 75%)	Yes NI	Yes (Eff.76%)	Yes (Eff.75%)
(5)	Chemical Laboratory (1 Lot)	Yes	Yes	Yes	Yes	Yes
(6)	Instrumentation & Control	Yes	Yes	Yes	Yes	Yes
(7)	Electrical	Yes	Yes	Yes	Yes	Yes
XII.	Rehabilitation of Fuel, Steam & Condensate Line to/from the Fuel Tank Farm					
	- F.O Low Pressure Pipes	Yes	Yes	Yes	Yes	Yes
	- Diesel Oil Pipes	Yes	Yes	Yes	Yes	Yea
	- Steam Pipes and Insulation	Yes	Yes	Yes	Yes	Yes
	- Valves	Yes	Yes	Yes	Yes	Yes
	- Condensed Line and Insulation	Yes	Yes	Yes	Yes	Yes
	- Condensate Pumps 2/15m ³ /h	Yes	Yes	Yes	Yes	Yes
XIII.	Miscellaneous Rehabilitation Works					
(1)	Corrosion Protection of Building (29,000 m ²)	Yes	Yes	Yes	Yes	Yes
(2)	Turbine House Roof (5,000 m ²)	Yes	Yes	Yes	Yes	Yes
(3)	Renovation of Administrative Building	Yes	Yes	Yes	Yes	Yes
(4)	Mobile Equipment					
	- Fork Lifts (2 units)	Yes	Yes	Yes	Yes	Yes
	- Mobile Crane (1 unit/20t)	Yes	Yea	Yes	FC	Yes
	- Trucks (2 unit/5t)	Yes	Yes	Yes	FC	Yes
(5)	Tools & Measurement Devices					
	- Ultrasonic Wall Thickness Measurement Device (40-50mm)	Yes	Yes	Yes	Yes	Yes
	- Noise & Vibrating Testing Set	Yes	Yes	Yes	Yes	Yes
	- Dryfilm Painting Thickness Gauge	Yes	Yes	Yes	Yes	Yes
XIV.	Store Control					
	- Computers and Software	Yes	Yes	Yes	Yes	Yes
	- Printers	Yes	Yes	Yes	Yes	Yes
	- Packing Equipment for Spare parts	Yes	Yes	Yes	Yes	Yes
	- Office Equipment	Yes	Yes	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
XV.	Electrical Equipment					
(1)	132 kV Equipment					
	1.1 132 kV Circuit Breakers					
	- Arc Quencing Medium SF6	Yes	Yes	Yes	Yes	Yes
	- Rated Operating Sequence	Yes	Yes	yes	Yes	Yes
	- Rated Current at 40 ⁰ C-2,000A	Yes	Yes	Yes	Yes	Yes
	- Rated Breaking Capacity at 132kV – 10,000 MVA	Yes	Yes	Yes	Yes	Yes
	1.2 132 kV Isolator					
	- Rated Current at 40 C-2000A	Yes	Yes	Yes	Yes	Yes
	- Rated Short Time Current (1s) 40kA	Yes	Yes	Yes	Yes	Yes
	1.3 Current Transformers	Yes	Yes	Yes	Yes	Yes
	- Current Ratio 600/1200/2400/1/5A	Yes	Yes	Yes	Yes	Yes
	- Rated Primary Short Time Thermal Current (1s) 40 kA	Yes	Yes	Yes	Yes	Yes
	- Rated Primary Dynamic Current 90 kA	Yes	Yes	Yes	NI	Yes
(2)	Surge Diverters					
	- 132 kV Surge Diverters	Yes	Yes	Yes	Yes	Yes
	- 33 kV Surge Diverters	Yes	Yes	Yes	Yes	Yes
	- 6.6 kV Surge Diverters	Yes	Yes	Yes	Yes	Yes
(3)	Current Transformers	Yes	Yes	Yes	Yes	Yes
(4)	Voltage Transformers (6.6 & 11kV)	Yes	Yes	Yes	Yes	Yes
(5)	Power Cables 6.6kV	Yes	Yes	Yes	Yes	Yes
XVI.	Training of Employer's Personnel					
(1)	Training at the Plant (approx. 30 Trainees for 12 Weeks (360 man-weeks)	Yes	Yes	Yes	Yes	Yes
(2)	Training outside the Purchaser's Country Approx. 12 Trainers for 12 Weeks (144 person weeks)	Yes	Yes	Yes	Yes	Yes
XVII.	Instrumental & Control					
(1)	Communication System					
	- PABX (250 Line)	Yes	Yes	Yes	Yes	FC
	- Telephone (200 Nos.)	Yes	Yes	Yes	Yes	FC
	- Intercom System for 50 Speakers	Yes	FC	Yes	Yes	FC
	- Loudspeakers (40 No.,)	Yes	FC	Yes	Yes	FC
(2)	Fire Alarm System					
	2.1 Main Fire Alarm Panel (1 No.)	Yes	Yes	Yes	Yes	Yes
	2.2 Deluge Panel (4 Nos.)	Yes	Yes	Yes	Yes	Yes
	2.3 Still-Panels (6 Nos.)	Yes	Yes	Yes	Yes	Yes
	2 4 Fire Alarm Detectors (250 Nos.)	Yes	Yes	Yes	Yes	Yes
	2.5 Cables	Yes	Yes	Yes	Yes	Yes
	2.6 Spareparts	FC'	FC	FC	FC	FC

LETTERHEAD OF THE EXECUTING AGENCY

Our Reference: 76621xxxxxx006

28 November 2006

Manager
Energy Division, EARD
6 ADB Avenue,
Mandaluyong City 1550, Philippines

Subject : Loan No. xxxx: xxx-xxxxxx Power Station Improvement Project
Contract for xxxxxx Power Station Rehabilitation Project

Dear Sir,

This letter refers to your fax message of 11 October 2006 by which you have approved the recommendations made in the Bid Evaluation Report (Technical Proposals) of the above Bid No. 15/xxxxxx/06 (ICB). In accordance with the Two Envelope (Two Stage) bidding procedure of the ADB, the Price Proposals of the five responsive bidders were opened publicly on 4 November 2006. In compliance with the requirements of the Loan Agreement, we are submitting herewith three (3) copies of the Bid Evaluation Report (Price Proposals) for the ADB's review and approval.

Please be informed that the award of the Contract as recommended in the Report has been approved by xxxxxx on 26 November 2006. As you will note, the validity of the bids expires on 21 January 2007. We would like to request for your early approval of the recommendations made in the Report because of the coming Christmas and New Year seasons.

Sincerely yours.

Signed
Deputy Executive Director
xxxxxx

Attachment: Three copies of Report

XXXXXX

**BID EVALUATION REPORT
(PRICE PROPOSALS)**

FOR

XXXXXX POWER STATION REHABILITATION PROJECT

BID No. 15/XXXXXX/06 (ICB)

ADB LOAN NO. XXXX-XXX

XXXXXX POWER STATION IMPROVEMENT PROJECT

25 NOVEMBER 2006

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1. INTRODUCTION

1.1 General

The xxxxxx has received a loan from the Asian Development Bank (ADB) to finance the cost of implementing the improvement program of the existing xxxxxx Power Station. As agreed in Schedule 4 of the Loan Agreement, the ADB Two Envelope (Two Stage) bidding procedure has been used. The Invitation of Bids was advertised in the 22 and 25 April 2006 issues of the two local English language newspapers and on 25 April 2006 in the ADB website and the bids were opened publicly on 25 July 2006.

In accordance with the Two Stage, Two Envelope bidding procedure of ADB, the technical proposals of the seven (7) bidders who participated were evaluated. The bid evaluation report (technical proposals) for xxxxxx Power Station Rehabilitation Project dated 26 September 2006 was submitted to the ADB with the following recommendations.

- (a) The technical proposals submitted by the following five (5) bidders were considered responsive to the requirements of the bidding documents.
 - (i) Bidder No. 1
 - (ii) Bidder No. 2
 - (iii) Bidder No. 3
 - (iv) Bidder No. 6
 - (v) Bidder No. 7
- (b) Bidder No. 4 and Bidder No. 5 were considered not qualified as they did not have the minimum experience requirements stipulated in the bidding documents; their price proposals were to be returned unopened.

ADB approved the above recommendation under cover of letter dated 11 October 2006. The envelopes containing the price proposals of Bidder No. 4 and Bidder No. 5 were returned on 14 October 2006. On the same day, the five (5) bidders were informed in writing that their technical proposals had been considered responsive to the requirements of the bidding documents and were invited to attend the opening of the revised technical proposals and price proposals, the time, date and place being indicated.

1.2 Opening of Price Proposals

The price proposals including the revised Technical Proposals and supplementary price proposals were opened at 10:30 AM on 4 November 2006 as indicated in the invitation letter, at the meeting room of the xxxxx Power Station by the Bid Opening Committee, in the presence of representatives of the bidders. The Chairman of the Bid Opening Committee announced the receipt of two (2) revised technical

proposals supplementary price proposals which had been submitted by Bidder No. 1 and Bidder No. 2.

The Bid Opening Committee examined the original envelopes containing price proposals of the five (5) technically responsive bidders, which were kept under the responsibility of Manager, Finance and Administration of xxxxxx Power Station. The members of the Bid Opening Committee were satisfied that the envelopes had not been tampered with and had been kept under lock and key after the opening of bids on 25 July 2006. The representative of respective bidders were also requested to check the condition of the envelope of their respective price proposal and asked if they had any objection. There were no objections from bidder's representatives. The five (5) envelopes and two (2) supplementary envelopes were opened. The bidder's names, the amount of bid prices, any discounts, and the presence and amount of bid security were announced and recorded.

Bidder No. 7 offered a discount of eight percent (8%) of the bid amount. Bidder No. 3 offered a lump sum discount of US\$500,000 (US Dollars Five Hundred Thousand) from its bid amount. The Record of Bid Opening was prepared soon after the bids were announced and a copy of the Record of the Bid Opening was forwarded to the ADB under cover of xxxxxx's letter dated 6 November 2006. A copy is attached as **Appendix 1**.

1.3 Basic Data and Exchange Rates

The currency for bid comparison is local currency. The exchange rates used for the evaluation were the selling rates officially prescribed for similar transactions by the Certified Bank of xxx on 4 November 2006 (the date of opening of price in proposals). Basic information pertaining to the bidding is summarized and attached as **Appendix 2**.

1.4 Bid Evaluation Committee

A Bid Evaluation Committee comprising the following four senior officers of xxxxxx had been formed by the Executive Director:

- | | | |
|-----|----------------------|--|
| (1) | Chairman | General Manager; xxxxxx Power Station |
| (2) | Member | Chief Engineer , xxxxxx Power Station |
| (3) | Member | Director, Planning Department, xxxxxx. |
| (4) | Member/
Secretary | Manager, Finance and Administration, xxxxxx
Power Station |

The Committee's decision have been made on the basis of unanimous views, but in case unanimous decisions could not be reached on certain issues, these issues were to be decided by the Executive Director.

2. EXAMINATION OF PRICE PROPOSALS

The price proposals submitted were first examined to ensure (that the bidders had submitted the Form of Bid and the priced Bill of Quantities and whether these documents had been prepared properly and signed as stipulated in the Instructions to Bidders. Documents of all bidders were satisfactory as all bid documents were signed and corrections were initialed by the authorized person. The revised Technical Proposals and supplementary price proposals of Bidder No. 1 and Bidder No. 2 were also checked as to whether their supplementary price proposals were limited to only those bid items which were involved in substantial revisions during technical evaluation. The results of the checking showed that the supplementary price proposals were made only for those bid items which required revisions and modifications.

2.1 Bid Security

All five (5) bidders submitted bid securities in the form of a Bank guarantee and fulfilled the requirements for the amount, terms, and also the period of validity.

2.2 Arithmetic Check, Corrections and Conversion to Local Currency

Each priced Bill of Quantities of the bidders was checked for arithmetic errors. Errors were corrected in accordance with the stipulations in the bidding documents. These corrections, none of which were substantial, were tabulated and are shown in **Appendix 3**, Table 1: Summary of Bid Prices (Arithmetic Corrections and Corrected Bid Prices). Furthermore, to facilitate evaluation and comparison of bids, the bid prices expressed in US Dollars and German Marks were converted into local currency at the selling exchange rates established by the Central Bank of xxx on 4 November 2006.

2.3 Time for Completion/Contract Execution Schedule

The contract execution schedule and sequence of delivery of major units of plant to be supplied and the rehabilitation works were evaluated in detail during the evaluation of Technical Proposals. It was reported that all of the five (5) bidders' proposed contract execution schedules met the overall completion requirement of 21 months for the total scope of work. However, two bidders, namely Bidder No. 2 and Bidder No. 6, had proposed the completion of Part A, 60 MW System, in 18 months against the specified period of 16 months in the bidding documents. The Bid Evaluation Committee discussed this matter with the two bidders during the first phase of technical discussions. The two bidders maintained their proposed contract execution schedule. Therefore, necessary price adjustments need to be made for two months delay in accordance with the stipulated terms of the bidding documents for bid comparison purposes only.

2.4 Terms of Payments

Compliance with the provisions for payment terms was checked during the evaluation of technical proposals and it had been reported that all bidders accepted the terms and conditions of the bidding documents with respect to payments.

3. EVALUATION AND COMPARISON OF PRICE PROPOSALS

3.1 Evaluation of Price Proposals

The scope of supply, technical information, technical data, manufacturers and sub-contractors were scrutinized in detail and compared with the requirements of the bidding documents during the evaluation of technical proposals. All additional information and technical data, unclear scope of supply, unacceptable technical performances, revisions and modifications of offered equipment and materials were resolved during the evaluation of technical proposals. Therefore, all bids were now technically acceptable and the scope of supply and standard were at an acceptable level in accordance with the bidding documents. The Salient Technical Requirements of Bids were summarized and attached as **Appendix 4**. Therefore, no price adjustments would be required for missing items or unacceptable items. However, price adjustments for bid comparison purposes only for (i) Boiler Output and Efficiency and (ii) Turbine Output and Heat Rate would be required in accordance with the provisions of the bidding documents.

3.1.1 Boiler Output

Clause 30.5(e), Section II of the bidding documents stipulated that for bid comparison, the bid price will be adjusted upwards at an amount to be calculated at LC850,000 for every one ton/h of output drop from 250 ton/h at MCR. All bidders guaranteed shelter output of 250 ton/h at MCR. Therefore, no financial adjustments were required for boiler output.

3.1.2 Boiler Efficiency

According to the provisions of Clause 30.5(e), Section 11 of the bidding documents, for bid comparison purposes, the bid price will be adjusted upwards at an amount to be calculated at the rate of LC11,725,000 for each one percent efficiency drop from a base efficiency of 90.5% at MCR.

(a) Bidder No. 1

The guaranteed efficiency for Bidder No. 1 is 89% at MCR. The upward adjustment of the Bid price was calculated as follows:

- Drop in efficiency from specified efficiency = 1.5%

- Unit penalty per 1% efficiency drop = LC11,725,000
- Amount for Adjustment = LC17,587,500

(b) Bidder No. 3

The guaranteed efficiency for Bidder No. 3 is 90% at MCR.

- Drop in efficiency from specified efficiency = 0.5%
- Unit penalty per 1% efficiency drop = LC11,725,000
- Amount for Adjustment = LC5,862,500

3.1.3 Turbine Output

All bidders proposed the guaranteed output of 60MW as specified. Accordingly, no adjustment was done.

3.1.4 Turbine Heat Rate

According to the provisions of Clause 36.5(e), Section I of the bidding documents, and Section III: Evaluation and Qualifications Criteria, for bid comparison purposes, the bid price will be adjusted upwards at an amount to be calculated at LC205,000 for each kcal/kWh additional turbine heat rate from the base specified heat rate of 2,327 kcal/kWh at MCR. The adjustments were calculated as follows:

Bidder	Proposed Head Rate (kcal/kWh)	Deviated Heat Rate	Adjustment in LC
Bidder No. 1	2,325	-2*	Nil
Bidder No. 2	2,408	+81	16,605,000
Bidder No. 3	2,327	0	-
Bidder No. 6	2,470	+143	29,315,000
Bidder No. 7	2,470	+143	29,315,000

* Bidder No. 1 proposed a better heat rate than the specified heat rate. However, no bonus for the better heat rate was considered in the bidding documents.

3.1.5 Adjustment for Contract Execution Schedule

As discussed in paragraph 2.4 above, the proposed Contract Execution Schedules of all five (5) bidders met the overall completion requirement of 21 months from the date of Notice to Proceed. However, Bidder No. 2 and Bidder No. 6 proposed a completion time of 18 months for Part A, 60 MW System, which is two months (60 days) longer than the stipulated completion time of 16 months.

Therefore, in accordance with the provisions of Clause 36.5 (e) of the Instruction to Bidders, and Section III: Evaluation and Qualifications

Criteria these bids shall be adjusted for bid comparison by adding at the rate of 0.05% of the bid price for Part A, 60 MW System, for each day of delay, to their bid price.

(a) Bidder No. 2

Bid Price for Part A, 60 MW System, is US\$7,131,770 and LC21,416,954. The price adjustment amount is (i) $\$7,131,770 \times 0.05/100 \times 60 = \$213,953.10$ and (ii) $LC21,416,954 \times 0.05/100 \times 60 = LC642,508.62$, which is LC9,457,590 equivalent.

(b) Bidder No. 6

Bid Price for Part A, 60 MW System, is US\$5,539,757 and LC5,784,400. The price adjustment amount is (i) $\$5,539,757 \times 0.05/100 \times 60 = \$166,192.71$ and (ii) $LC5,784,400 \times 0.05 / 100 \times 60 = LC173,532.00$, which is LC7,020,830 equivalent.

3.2 Comparison of Price Proposals and Determination of the Lowest Evaluated Bid

The arithmetically corrected bid prices including discounts, adjusted prices for compliance with the contract execution schedule, and adjusted prices for compliance with the technical requirements (functional guarantees for boilers and turbines) as discussed in paragraph 3.1 above were summarized in Table 3: Bid Price Comparison with Price Adjustments and attached to this Report as Appendix 5. As that comparison shows, the lowest evaluated substantially responsive bid is that submitted by Bidder No. 6. The evaluated bid price is LC 389,553,107.

3.3 Domestic Preference Scheme

All five (5) bidders offered foreign goods. None of the bidders requested that the domestic preference scheme be applied to its bid. The Bid Evaluation Committee also concluded that all of the five (5) bids were not eligible for the application of the Domestic Preference Scheme.

3.4 Reasonable Price of the Lowest Evaluated Bid

Bidder No. 6, at the corrected price of \$8,060,707 and LC21,108,080 (LC353,217,269 equivalent) is approximately 80.9% of the Executing Agency's estimate of LC446,697.600, which was based on the prices prevailing in early 2006, excluding physical contingency and price escalation. The unit prices of work items with civil works nature and installation are rather low compared with other works of a similar nature in the country, however, the unit prices for major imported equipment, and specialized instrumentation and control equipment, such as Process Control and Operation Management System, are similar to other projects

in the xxxxxx. Thus, the bid of the lowest evaluated bidder was considered reasonable.

4. CONCLUSIONS AND RECOM- MENDATIONS

On the basis of the systematic evaluation of bids, which had been carried out in accordance with the provisions of the bidding documents, it was concluded that Bidder No. 6 had submitted the lowest evaluated substantially responsive bid. It was recommended that the contract for the xxxxxx Power Station Rehabilitation Project be awarded to Bidder No. 6 at the bid price of US\$8,060,707 and LC21,108,080 (LC353,217,289 equivalent). It was also recommended that the Asian Development Bank approves the award and notifies the EA of its approval in time to issue the Notice of Award to the successful bidder before expiration of the bid validity on 21 January 2007.

RECORD OF BID OPENING

Loan No. xxxx-xxx Project Title : xxxxxx Power Station Improvement Project
 Bid No. 15/xxxxxx/06 (ICB) Bid Title : xxxxxx Power Station Rehabilitation Project

1. The Chairman of the Bid Opening Committee announced that the following two supplementary price proposals were received as a result of the evaluation of technical proposals in accordance with the Two Envelope (Two Stage) bidding procedure:

- (j) Bidder No. 1; and
- (ii) Bidder No.2.

2. The five envelopes containing the price proposals of the following bidders, which were kept under the responsibility of Manager, Finance and Administration of xxxxxx Power Station, were publicly opened and read together with the above supplementary price proposals at 10:30 AM on 4 November 2006. Prior to the opening of the envelopes, the Bid Opening Committee, as well as the representatives of the concerned bidders, checked the condition of each envelope.

Name of Bidders	Bid Price		Bid Security Amount	Remarks	Signature of Representative
	Foreign	Local			
Bidder, No. 1	DM	LC	US\$210,000	–	Signed
Original Price Proposal	14,722,029	74,674,757			
Supplementary Price Proposal	613,700	3,930,250			
Total	15,335,229	78,605,007			
Bidder No. 2	US\$		US\$110,000	–	Signed
Original Price Proposal	10,035,635	68,772,717			
Supplementary Place Proposal	528,150	3,619,000			
Total	10,563.785	72.391,717			
Bidder No. 3	US\$		US\$210,000	Offered \$500,000 Lump Sum discount	Signed
	8,569,078	52,127,834			
Bidder No. 6	US\$		US\$1210,000	–	Signed
	8,068,601	20,733,830			
Bidder No. 7	US\$			Offered 8% discount on Bid Price	Signed
	8,580,596	41,239,963			

Appendix 1
Page 2 of 3

3. The following bidders' representatives attended the public opening of price proposals and a copy of the attendance sheet is attached as an annexure of this record.

Serial No.	Name	Designation	Bidding Company Represented
1.	Mr. xxxxxx	Deputy Manager Asia Office	Bidder No. 1
2.	Mr. xxxxxx	Director International Marketing Division	Bidder No. 2
3.	Mr. xxxxxx	Deputy Chief Overseas Section	Bidder No. 3
4.	Mr. xxxxxx	Manager Local Branch Office	Bidder No. 6
5.	Mr. xxxxxx	Chief Planning & Design Division	Bidder No. 7

4. Matters transpiring during the opening of price proposals

Mr. xxxxxx, the representative of Bidder No. 6, requested the Bid Opening Committee to announce more information about the discounts offered by Bidder No. 3 and Bidder No. 7. The Chairman of the Committee clarified that both bidders offered discounts in their covering letters. The Chairman read the relevant paragraphs of these letters.

5. Reading and signing of documents ended at 11:45 AM

Signed
Member
Chief Engineer
Xxxxx Power Station

Signed
Chairman
General Manager

Signed
Member
Director, Planning Dept.
xxxxx

ATTENDANCE SHEET AT OPENING OF BIDS

Loan No. xxx-xxx
 Bid No. 15/xxxxxx (ICB)
 Place: Meeting Room
 Second Floor
 Administration Building
 xxxxxx Power Station

Project Title : xxxxx Power Station Improvement Project
 Bid Title : xxxxxx Power Station Rehabilitation Project
 Date: 4 November 2006; Time 10: 30 AM

The following bidders' representatives attended the public opening of bids.

Bidder No.	Bidders	Representative		Signature
		Name	Designation	
1.	Bidder No. 1	Mr. xxxxxx	Deputy Manager Asia Office	Signed
2.	Bidder No. 2	Mr. xxxxxx	Director International Marketing	Signed
3.	Bidder No. 3	Mr. xxxxxx	Deputy Chief Overseas Section	Signed
4.	Bidder No. 6	Mr. xxxxxx	Manager Local Branch Office	Signed
5.	Bidder No. 7	Mr. xxxxxx	Chief Planning & Design	Signed

Appendix 2

BASIC DATA SHEET

1.	Project Title	xxxxxx Power Station Improvement Project
2.	Loan Number	xxxx-xxx
3.	Bid Title	xxxxxx Power Station Rehabilitation Project
4.	Bid Number	15/xxxxxx/06 (ICB)
5.	Estimated Value	US Dollar 10,585,000.00 (LC446,697,600 approx.)
6.	Date Invitation for Bids Issued	22 April 2006
7.	Mode of Procurement	International Competitive Bidding Two Stage, Two Envelope Bidding Procedure

A. TECHNICAL PROPOSALS

8.	Bid Closing Date and Time	10:30 AM on 25 July 2006
9.	Bid Opening Date and Time	11:00 AM on 25 July 2006
10.	Number of Bids Received	Seven (7) Bids
11.	Date of Bid Evaluation Report (Technical Proposals) submitted to ADB	26 September 2006 27 September 2006
12.	Date of Approval by ADB	11 October 2006
13.	Number of Responsive Bidders	Five (5) Bids
14.	Number of Non-Responsive Bidders	Two (2) Bids

B. PRICE PROPOSALS

15.	Date Invitation Letters sent to five bidders to attend the opening of Price Proposals	14 October 2006
16.	Number of Supplementary Price Proposals Received	Two (2)
17.	Opening Date and Time of Price Proposals	10:30 AM on 4 November 2006
18.	Bid Validity Period i.e. 25 July 2006	180 days from the date of opening of bids
19.	Bid Validity Expires on	21 January 2007
20.	Bid Security Amount	Not less than 2% of the Bid Price
21.	Bid Security Validity Expires On	18 February 2007
22.	Date for Determining Applicable Exchange Rates	4 November 2006 (date of opening of price proposals) Source: The selling exchange rates of Central Bank of xxxxxx
23.	Exchange Rates for Evaluation	1 US\$ – LC41.201 1 DM = LC28.05

TABLE 1: SUMMARY OF BID PRICES
(ARITHMETIC CORRECTIONS AND CORRECTED BID PRICES)

Bidder	Particular	Bid Price at Opening		Corrections		Corrected Bid Price		Corrected Bid Price LC Equivalent*	Ranking
		Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency		
No. 1	Part A: 60 MW System	DM10,106,220	28,958,573	DM(+195,005	(-) 75,763	DM10,111,225	28,882,810	312,502,671	(5)
	Part B: Supporting System	5,319,009	49,646,434	(+)32,616	(+)325,142	5,351,625	49,971,576	200,084,657	
	Sub-Total	15,335,229	78,605,007	(+)127,621	(+)249,379	15,462,850	78,854,386	512,587,328	
	Discount	-	-	-	-	0	0	0	
	Total	-	-	-	-	15,462,850	78,854,386	512,587,328	
No. 2	Part A: 60 MW System	US\$7,131,770	21,411,046	US 0	(+)5,908	US\$7,131,770	21,416,954	315,253,010	(4)
	Part B: Supporting System	3,432,015	50,980,671	(-) 2,964	(+) 91,634	3,429,051	51,072,305	192,352,635	
	Sub-Total	10,563,785	72,391,717	(-)2,964	(+) 97,542	10,560,821	72,489,259	507,605,645	
	Discount	-	-	-	-	0	0	0	
	Total	-	-	-	-	10,560,821	72,489,259	507,605,645	
No. 3	Part A: 60 MW System	US\$5,855,955	15,116,110	US 0	0	US\$5,855,955	15,116,110	256,387,312	(3)
	Part B: Supporting System	2,713,123	37,011,724	(+) 21,502	(-)205,012	2,734,625	36,805,912	149,475,197	
	Sub-Total	8,569,078	52,127,874	(+)21,502	(-)205,812	8,590,580	51,922,022	405,862,509	
	Discount (L.S.)	-	-	-	-	(-)500,000	0	(-)20,600,500	
	Total	-	-	-	-	8,090,580	51,922,022	383,262,009	
No. 6	Part A: 60 MW System	US\$5,565,083	5,553,700	US\$(-)25,326	(+)231,100	US\$5,539,757	5,784,400	234,027,928	(3)
	Part B: Supporting System	2,503,518	15,180,530	(+)17,432	(+)143,150	2,520,950	15,323,680	119,189,341	
	Sub-Total	8,068,601	20,773,830	(-)7,894	(+)374,250	8,060,707	21,108,080	353,217,269	
	Discount	-	-	-	-	-	-	-	

	Discount	-	-	-	-	-	-	-	-	0	0	0	(1)
	Total	-	-	-	-	-	-	-	-	8,060,707	21,108,080	353,217,269	
No. 7	Part A: 60 MW System	US\$5,790,140	16,490,708	US\$(+)109,653	US\$(+)109,653	US\$5,899,793	(-)132,309	US\$5,899,793	16,358,399	259,435,770	259,435,770		
	Part B: Supporting System	2,790,456	24,749,245	(+)62,105	(+)62,105	2,852,561	(+)257,609	2,852,561	25,006,854	142,535,220	142,535,220		
	Sub-Total	8,580,596	41,239,953	(+)171,758	(+)171,758	8,752,354	(-)125,300	8,752,354	41,365,253	401,970,990	401,970,990		
	Discount (8%)	-	-	-	-	-	-	(-)700,188	(-) 3,309,220	(-)32,157,660	(-)32,157,660		
	Total	-	-	-	-	-	-	8,052,166	38,056,033	369,813,324	369,813,324		(2)

*Based on Selling Exchange Rate: _____

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TABLE 2: SALIENT FEATURES OF TECHNICAL REQUIREMENTS

Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
PART A	60 MW UNIT					
I.	Boiler and Auxiliaries					
(1)	Pressure Part	Yes	Yes	Yes	Yes	Yes
	- Pipes, Tubes, Valves					
	- Boiler Safety Valves					
(2)	Air & Waste Gas System	Yes	Yes	Yes	Yes	Yes
(3)	Steel Structures	Yes	Yes	Yes	Yes	Yes
(4)	Fuel System					
	- Burners	Yes	Yes	Yes	Yes	Yes
	- High & Low Pressure Pumps & Piping	Yes	Yes	Yes	Yes	Yes
(5)	Chemical Injection System	Yes	Yes	Yes	Yes	Yes
(6)	Boiler Crane & Lift	Yes	Yes	Yes	Yes	Yes
(7)	Insulation	Yes	Yes	Yes	Yes	Yes
(8)	ID Fans					
	- Type Axial	axial	axial	axial	axial	axial
	- Capacity $252 \times 10^3 \text{ m}^3/\text{h}$	Yes	252×10^3	252×10^3	252×10^3	275×10^3
(9)	Instrumentation & Control	Yes	Yes	Yes	Yes	Yes
(10)	Guaranteed Values					
	- Flow, Output 250 ton/h	250	250	250	250	260
	- Efficiency 90.5%	89%	90.5%	90.5%	90.5%	90.5%
II	Turbine & Auxiliaries					
(1)	Performance					
	(i) Maximum Continuous Rating 60 M.W.	Yes	Yes	Yes	Yes	Yes
	(ii) Guaranteed Heat Rate 2.327 kcal/kWh.	2,325	2,408	2,327	2,470	2,470
(2)	Scope of Work					
	2.1 Turbine Rotor					
	- On Site Overhaul	Yes	NI	Yes	Yes	Yes
	- Off site Repair, kW Rotor and LP Rotor	Yes	Yes	Yes	Yes	Yes
	2.2 Lube Oil and Jacking Oil System	Yes	Yes	Yes	Yes	Yes
	2.3 Extraction Steam System & Gland Sealing System	Yes	Yes	Yes	Yes	Yes
	2.4 Condenser & Accessories	Yes	Yes	Yes	Yes	Yes
	2.5 Steam and all Inter Connecting Pipe Works	Yes	Yes	Yes	Yes	Yes
	2.6 Turbine Protection 1 & C System	Yes	Yes	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
III.	Steam & Water Cycle					
(1)	Overhaul of Existing System	Yes	Yes	Yes	Yes	Yes
(2)	Condensate Pumps-2 sets	Yes	Yes	Yes	Yes	Yes
(3)	Low Pressure Heaters	Yes	Yes	Yes	Yes	Yes
(4)	Deaerator & Feed Water Tank, Feed Water Pump	Yes	Yes	Yes	Yes	Yes
(5)	High Pressure Heaters	Yes	Yes	Yes	Yes	Yes
(6)	Feed Water Control Station	Yes	Yes	Yes	Yes	Yes
(7)	Steam Pressure Reducing Stations-4 Nos.	Yes	Yes	Yes	Yes	Yes
(8)	Instrumentation & Control	Yes	Yes	Yes	Yes	Yes
IV.	Ancillary Equipment					
(1)	Rehabilitation of Cranes in Turbine House & CW Pump House	Yes	Yes	Yes	Yes	Yes
(2)	Circulating Water System	Yes	Yes	Yes	Yes	Yes
(3)	Hydrogen Cooling Water System					
	- 100% Tube of Heat Exchanges	Yes	Yes	Yes	Yes	Yes
(4)	- CW Pump Shaft & Accessories	Yes	Yes	Yes	Yes	Yes
	Air Conditioning System	Yes	Yes	Yes	Yes	Yes
V.	New Soot Blower System					
(1)	Long Retractable Soot Blower (4 or 8 Nos.)	4 (Yes)	4(Yes)	8 (Yes)	8 (Yes)	8 (Yes)
(2)	Non Retractable Soot Blower	4 (Yes)	4 (Yes)	Yes	8 (Yes)	8 (Yes)
(3)	Pressure Reducing Station with Piping and Valves	Yes	Yes	Yes	Yes	Yes
(4)	Galleries and Stairs	Yes	Yes	Yes	Yes	Yes
VI.	Circulating Water Intake					
(1)	Design Parameter					
	- Total Flow Rate 26,000 m ³ /h	Yes	Yes	Yes	Yes	Yes
	- Flow, through each Screen at L.WL 6,500 m ³ /h	Yes	Yes	Yes	Yes	Yes
	- Drift across Screen max. 150mm	Yes	Yes	Yes	Yes	Yes
	- Clogged Screen Area 25%	Yes	Yes	Yes	Yes	Yes
(2)	Scope of Work					
	2.1 Travelling Rigid Screen 4 Sets	Yes	Yes	Yes	Yes	Yes
	2.2 Coarse Bar Screen 4 Sets	Yes	Yes	Yes	Yes	Yes
	2.3 Screen Back Wash Pumps 2 Sets	Yes	Yes	Yes	Yes	Yes
	2.4 Derrick Type Crane 1 set of 3t	Yes	Yes	Yes	Yes	Yes
	2.5 Portable Sump Pumps 2 Sets	Yes	Yes	Yes	Yes	Yes
	2.6 All Civil Works	Yes	Yes	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
VII	Electrical Equipment					
(1)	6.6 kV Switchgear	Yes	Yes	Yes	Yes	Yes
(2)	Battery - 60V and 110V	Yes	Yes	Yes	Yes	Yes
(3)	Power Transformers	Yes	Yes	Yes	Yes	Yes
(4)	Generator	Yes	Yes	Yes	Yes	Yes
(5)	Motors	Yes	Yes	Yes	Yes	Yes
(6)	Lighting System					
	- Boiler House	Yes	Yes	Yes	Yes	Yes
	- Cooling Water Pump House	Yes	Yes	Yes	Yes	Yes
VIII.	I and C Equipment					
(1)	PCOM Hardware	Yes	Yes	Yes	Yes	Yes
(2)	PCOM Software	Yes	Yes	Yes	Yes	Yes
(3)	PCOM Spare Parts and Consumables	Yes	Yes	Yes	Yes	Yes
(4)	Training for PCOM	Yes	Yes	Yes	Yes	Yes
(5)	Pressure and Diff. Pressure Transmitters	Yes	Yes	Yes	Yes	Yes
(6)	Pressure Gauges	Yes	Yes	Yes	Yes	Yes
(7)	Temperature Instruments & Gauges	Yes	Yes	Yes	Yes	Yes
(8)	Turbine Vibration Alarm System	Yes	Yes	Yes	Yes	Yes
(9)	Turbine Shaft Displacement Monitoring System	Yes	Yes	Yes	Yes	Yes
PART B IX.	Supporting System Hydrogen Generation Plant					
(1)	Demolition of Existing System	Yes	Yes	Yes	Yes	Yes
(2)	Main Cycle Equipment					
	2.1 Requirements					
	- Type: Electrolytic	Yes	Yes	Yes	Yes	Yes
	- Type of Electrolyte NaOH (or) KOH	Yes	NaOH	Yes	NaOH	Yes
	- Production Rate: 8Nm ³ /h	Yes	Yes	Yes	Yes	Yes
	- Quality:					
	Hydrogen 99%	Yes	Yes	Yes	Yes	Yes
	Oxygen <10 ppm	Yes	Yes	Yes	Yes	Yes
	Nitrogen <500 ppm	Yes	Yes	Yes	Yes	Yes
	Carbon Monoxide <10 ppm	Yes	Yes	Yes	Yes	Yes
	Co ₂ <10 ppm	Yes	Yes	Yes	Yes	Yes
	H ₂ O < 6.2 mg/Nm ³	Yes	Yes	Yes	Yes	Yes
	- Power Consumption <5kWh/Nms	4.8	4.8	3.0	4.9	5.0
	2.2 Electrolytic Cell	Yes	Yes	Yes	Yes	Yes
	2.3 Hydrogen Gas Compressors & Gas Dryer	Yes	Yes	Yes	Yes	Yes
	2.4 Gas Filling Station and Gas Holders for 7 Days Operation	Yes	Yes	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No.2	Bidder No. 3	Bidder No. 6	Bidder No. 7
IX. (cont.)						
(3)	Electrical Equipment	Yes	Yes	Yes	Yes	Yes
(4)	Control & Instrumentation Equip.	Yes	Yes	Yes	Yes	Yes
(5)	Chemical and Chemical Lab.	Yes	Yes	Yes	Yes	Yes
X.						
(1)	Overhaul of Existing System	Yes	Yes	Yes	Yes	Yes
(2)	Water Storage Tank, Filling Pumps & Pipe Works	Yes	Yes	Yes	Yes	Yes
(3)	Engine Driven Fire Pump w/ Diesel Storage Tank (1 Set) (300 m ³ /h and 9.8 bar)	Yes	Yes	Yes	Yes	Yes
(4)	Motor Driven Jockey Pump (1 Set) (10 m ³ /h, 9.8 bar)	Yes	Yes	Yes	Yes	Yes
(5)	Underground Fire Service Mains (min. size 150mm, DCI pipes)	Yes	Yes	Yes	Yes	Yes
(6)	Yard Hydrants end Hose Cabinets, (Min. 14 sets)	Yes (16)	Yes (15)	Yes (16)	Yes (15)	Yes (14)
(7)	Standpipe Systems & Cabinets (Min. 35 sets)	Yes (35)	Yes (35)	Yes (36)	Yes (35)	Yes (37)
(8)	Foam System for Tank Cooling	Yes	Yes	Yes	Yes	Yes
(9)	Water Spray Fixed System for Transformers	Yes	Yes	Yes	Yes	Yes
(10)	Sprinkler System for Fire Fighting Pump Room	Yes	Yes	Yes	Yes	Yes
(11)	Portable Fire Extinguishers & Wheeled Fire Extinguishers	Yes	Yes	Yes	Yes	Yes
XI.	Water Treatment Plant					
(1)	Pre-treatment Plant (Pumps & Blower)	Yes	Yes	Yes	Yes	Yes
(2)	Demineralized WT. Plant	Yes	Yes	Yes	Yes	Yes
(3)	Potable W T Unit 20 m ³ /h & Potable W/Storage Tank 40m ³ Capacity	Yes(20) (40)	Yes (20) (40)	Yes(20) (40)	Yes(20) (40)	Yes(25) (40)
(4)	General Replacements					
	4.1 Chlorination Dosing Station 2 No. Tank (2m ³) & Pumps	Yes	Yes	Yes	Yes	Yes
	4.2 Potable w/ Booster Pumps (25 m ³ /hr, 30m & Eff. 70%)	Yes (Eff.74%)	Yes (Eff.70%)	Yes (Eff.74%)	Yes (Eff.72%)	Yes (Eff.70%)
	4.3 Potable W/ Transfer Pumps (20 m ³ /hr; 40m & Eff. 70%)	Yes (Eff.74%)	Yes (Eff.70%)	Yes (Eff.74%)	Yes (Eff.72%)	Yes (Eff.70%)
	4.4 Neutralization Pumps (120m ³ /hr, 20m, Eff. 70%)	Yes (Eff.75%)	Yes (Eff.75%)	Yes (Eff.74%)	Yes (Eff.76%)	Yes (Eff.75%)
(5)	(Chemical Laboratory (1 Lot)	Yes	Yes	Yes	Yes	Yes
(6)	Instrumentation & Control	Yes	Yes	Yes	Yes	Yes
(7)	Electrical	Yes	Yes	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
XII.	Rehabilitation of Fuel, Steam & Condensate line to/from the Fuel Tank Farm	Yes	Yes	Yes	Yes	Yes
XIII.	Miscellaneous Rehabilitation Works					
(1)	Corrosion Protection of Building (29,000 m ²)	Yes	Yes	Yes	Yes	Yes
(2)	Turbine House Roof (5,000 m ²)	Yes	Yes	Yes	Yes	Yes
(3)	Renovation of Administrative Building	Yes	Yes	Yes	Yes	Yes
(4)	Mobile Equipment					
	- Fork Lifts (2 Units)	Yes	Yes	Yes	Yes	Yes
	- Mobile Crane (1 Unit/20t)	Yes	Yes	Yes	Yes	Yes
	- Trucks (2 Units/5t)	Yes	Yes	Yes	Yes	Yes
(5)	Tools & Measurement Devices					
	- Ultrasonic Wall thickness Measurement Device (40-50mm)	Yes	Yes	Yes	Yes	Yes
	- Noise & Vibrating Testing Set	Yes	Yes	Yes	Yes	Yes
	- Dryfilm Painting Thickness Gauge	Yes	Yes	Yes	Yes	Yes
XIV.	Store Control					
	- Computers and Software	Yes	Yes	Yes	Yes	Yes
	- Printers	Yes	Yes	Yes	Yes	Yes
	- Packing Equipment for Spare parts	Yes	Yes	Yes	Yes	Yes
	- Office equipment	Yes	Yes	Yes	Yes	Yes
XV.	Electrical Equipment					
(1)	132 kV Equipment					
	1.1 132 kV Circuit Breakers	Yes	Yes	Yes	Yes	Yes
	1.2 132 kV Isolator	Yes	Yes	Yes	Yes	Yes
	1.3 Current Transformers	Yes	Yes	Yes	Yes	Yes
(2)	Surge Diverters	Yes	Yes	Yes	Yes	Yes
(3)	Current Transformers	Yes	Yes	Yes	Yes	Yes
(4)	Voltage Transformers (6.6 & 11kV)	Yes	Yes	Yes	Yes	Yes
(5)	Power Cables 6.6kV	Yes	Yes	Yes	Yes	Yes
XVI.	Training of Employer's Personnel					
(1)	Training at the Plant approx. 30 Trainees for 12 Weeks (360 person-weeks)	Yes	Yes	Yes	Yes	Yes
(2)	Training Outside the Purchaser's Country Approx. 12 Trainers for 12 Weeks (144 person-weeks)	Yes	Yes	Yes	Yes	Yes

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Section	Description	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
XVII. (1) (2)	Instrumentation & Control					
	Communication System					
	- PABX (250 Line)	Yes	Yes	Yes	Yes	Yes
	- Telephone (200 Nos.)	Yes	Yes	Yes	Yes	Yes
	- Intercom System for 50 Speakers	Yes	Yes	Yes	Yes	Yes
	- Loudspeakers (40 Nos.)	Yes	Yes	Yes	Yes	Yes
	Fire Alarm System					
	2.1 Main Fire Alarm Panel (1 No.)	Yes	Yes	Yes	Yes	Yes
	2.2 Deluge Panel (4 Nos.)	Yes	Yes	Yes	Yes	Yes
	2.3 Sub-Panels (6 Nos.)	Yes	Yes	Yes	Yes	Yes
2.4 Fire Alarm Detectors (250 Nos.)	Yes	Yes	Yes	Yes	Yes	
2.5 Cables	Yes	Yes	Yes	Yes	Yes	
2.6 Spare parts	Yes	Yes	Yes	Yes	Yes	

Yes - Fulfilled Scope of Works and/or Meets Required Specifications.

NI - No information provided in the Bid

Appendix 5

TABLE 3: BID PRICE COMPARISON WITH PRICE ADJUSTMENTS

Serial. No.	Particulars	Bidder No. 1	Bidder No. 2	Bidder No. 3	Bidder No. 6	Bidder No. 7
I	Bid Price					
1	Part A: 6OMW System	312,502,671	315,253,010	256,387,312	234,027,928	259,435,770
2	Part B : Supporting System	200,084,657	192,352,635	149,475,197	119,189,341	142,535,220
	Total (A) + (B)	512,587,328	507,605,645	405,862,509	353,217,269	401,970,990
3	Discount	0	0	(-)20,600,500	0	(-)32,157,679
4	Total Bid Price	512,587,328	507,605,645	385,262,009	353,217,269	369,813,311
II	Price Adjustments					
1	Delay in Completion		9,457,590	-	7,020,838	-
2	Adjustment for Functional Guarantees	-				
	(i) Boiler Output	17,587,500	-	5,862,500		-
	(ii) Boiler Efficiency	-	-	-	-	-
	(iii) Turbine Output	-	16,605,000	-	29,315,000	29,315,000
	(iv) Turbine Heat Rate					
	Total for Price Adjustment	17,587,500	26,062,590	5,862,500	36,335,838	29,315,000
III	Total Evaluated Bid Price	530,174,828	533,668,235	391,124,509	389,553,107	399,128,311
IV	RANKING	(4)	(5)	(2)	(1)	(3)

Guide on Bid Evaluation

This guide is intended to provide guidance to borrowers on bid evaluation procedures and how to prepare a bid evaluation report to be submitted to ADB, in connection with the procurement of contracts financed in whole or in part from proceeds of ADB loans.

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