

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT
THE REPUBLIC OF INDONESIA

**THE DETAILED DESIGN
OF
FLOOD CONTROL, URBAN DRAINAGE AND
WATER RESOURCES DEVELOPMENT IN
SEMARANG IN THE REPUBLIC OF INDONESIA**

FINAL REPORT

COMPONENT C:
URBAN DRAINAGE SYSTEM IMPROVEMENT

BIDDING DOCUMENTS

PACKAGE 2:
AHN RIVER DRAINAGE SYSTEM IMPROVEMENT

Volume 1

AUGUST 2000

CTI ENGINEERING INTERNATIONAL CO., LTD.

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**MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT
THE REPUBLIC OF INDONESIA**

**FLOOD CONTROL, URBAN DRAINAGE AND
WATER RESOURCES DEVELOPMENT IN SEMARANG**

**COMPONENT C:
URBAN DRAINAGE SYSTEM IMPROVEMENT**

BIDDING DOCUMENTS

**PACKAGE 2:
ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT**

VOLUME 1

**INVITATION FOR BIDS
INSTRUCTIONS TO BIDDERS
FORMS OF BID, QUALIFICATION INFORMATION,
LETTER OF ACCEPTANCE, AGREEMENT, APPENDICES
CONDITIONS OF CONTRACT
CONTRACT DATA
BILL OF QUANTITIES
SECURITY FORMS**

AUGUST 2000



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Note : Section 5, Specification, is included in Volume 2 and Section 6, Drawings, is included in Volume 3 of the Bidding Documents.

INVITATION FOR BIDS (IFB)

Date :

Contract Identification No. :

FA Loan/Credit No. :

FA Loan/Credit name :

- (1) The Government of Republic of Indonesia has received a loan from the OECF towards the cost of a project for Flood Control, Urban Drainage and Water Resources Development in Semarang and intends to apply part of the funds to cover eligible payments under the Contract for Component: Urban Drainage System Improvement; Package 2: Asin River Drainage System Improvement. Bidding is open to all bidders from eligible source countries under the General Untying Scheme, as shown in Attachment VI-1 to the OECF Loan Handbook dated January 1999.
- (2) The Directorate General of Water Resources Development of the Ministry of Public Works representing the Government of the Republic of Indonesia invites sealed bids from eligible bidders for the construction of the above-mentioned package of urban drainage system improvement works generally comprising river improvement works for the Semarang and Asin rivers, a pumping station, a retarding pond, gate works, building works, other civil works and supply of maintenance equipment, more particularly described elsewhere in the Bidding Documents.
- (3) Bidding documents (and additional copies) may be obtained at the office of JRATUNSELUNA River Basin Development Project, Jln. Brigjen Sudiarto No 375, Semarang 50191, Central Java, Indonesia upon showing a receipt for a non-refundable payment of Rp.....from Kantor Perbendaharaan dan Kas Negara (KPKN) Semarang, for each set. Interested bidders may obtain further information at the same address.
- (4) Bids shall be valid for a period of 150 days after Bid opening and must be accompanied by a security of two percent (2%) of the bid price or its equivalent in a convertible currency, and shall be delivered to

The Tender Committee

Flood Control, Urban Drainage and Water Resources in Semarang

Directorate General of Water Resources Development

Ministry of Public Works, Republic of Indonesia

JRATUNSELUNA River Basin Development Project

Jalan Brigjen Sudiarto No. 375

Semarang 50191

Central Java

INDONESIA

on or before[*time and date of Bid closing*], at which time they will be opened in the presence of the bidders who wish to attend.

- (5) Please confirm receipt of this letter immediately in writing by cable, fax, or telex. If you do not intend to bid, we would appreciate being so notified also in writing at your earliest opportunity.

Yours Truly,

Authorized signature :

Name and title :

Employer :

SECTION 1

INSTRUCTIONS TO BIDDERS

SECTION 1

Instructions to Bidders

A. General

1. Scope of Bid 1.1 The Employer as defined in the Contract Data, invites bids for the construction of Works, as described in the Contract Data.

The name and identification number of the contract is provided in the Contract Data.
- 1.2 The successful Bidder will be expected to complete the Works by the Intended Completion Date specified in the Contract Data.
2. Source of funds 2.1 The Government of The Republic of Indonesia (GOI) has received a loan from the Funding Agency (FA) named in the bidding data for the project named in the bidding data and intends to apply a portion of the proceeds of the loan to payments under this contract. Payments by the FA will be made only at the request of the GOI and upon approval by the FA in accordance with the Loan Agreement, and will be subject in all respect to the terms and conditions of that Agreement. Except as the FA may specifically otherwise agree, no party other than the GOI shall derive any rights from the Loan Agreement or have any rights to the loan/proceeds.
- 2.2 The loan agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the FA, is prohibited by a decision of the United Nations Security Council, taken under Chapter VII of the Charter of the United Nations.
3. Eligible Bidders 3.1 This Invitation for Bids is open to all bidders from eligible countries as defined in the Procurement Guidelines. Any materials, equipment, and services to be used in the performance of the Contract shall have their origin in eligible source countries.

3.2 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a statement that the Bidder (including all members of a joint venture and subcontractors) is not associated, nor has been associated in the past, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract. A firm that has been engaged by the GOI to provide consulting services for the preparation or supervision of the works, and any of its affiliates, shall not be eligible to bid.

3.3 Government owned enterprises may only participate if they are legally and financially autonomous, operate under commercial law, and are not a depend agency of the Employer.

3.4 Bidders shall not be under a declarations of ineligibility for corrupt and fraudulent practices issued by the Bank in accordance with sub-clause 37.1.

4. Qualification of the Bidder

4.1 All bidders shall provide in section 2, Forms of Bid and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.

4.2 In the event that pre-qualification of potential bidders has been undertaken, only bids from pre-qualified bidders will be considered for award of Contract. These qualified bidders should submit with their bids any information updating their original pre-qualification applications or, alternatively, confirm in their bids that the originally-submitted pre-qualification information remains essentially correct as of the date of bid submission. The update or confirmation should be provided in Section 2.

4.3 If the Employer has not undertaken pre-qualification of potential bidders, all bidders, shall include the following information and documents with their bids in Section 2, unless otherwise stated in the Bidding Data :

- (1) copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
- (2) total monetary value of construction work performed for each of the last five years;
- (3) experience in works of a similar nature and size for each of the last five years, and details of work under way or contractually committed; and clients who may be contacted for further information on those contracts;
- (4) major items of construction equipment proposed to carry out the Contract;
- (5) qualifications and experience of key site management and technical personnel proposed for the Contract;
- (6) report on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past five years;
- (7) evidence of adequacy of working capital for this Contract (access to line(s) of credit and availability of other financial resources);
- (8) authority to seek references from the Bidder's bankers;
- (9) information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount; and
- (10) proposals for subcontracting components of the Works amounting to more than ten percent (10%) of the Contract Price.

4.4 Bids submitted by a joint operation of two (2) or more firms as partners shall comply with the following requirements, unless otherwise stated in the Bidding Data;

- (a) the Bid shall include all the information

listed in Sub-Clause 4.3 above for each joint operation partner;

- (b) the Bid shall be signed so as to be legally binding on all partners;
- (c) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
- (d) one of the partners will be nominated as being in charge, authorized to incur liabilities, and receive instructions for and on behalf of any and all partners of the joint operation; and

the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

4.5 To qualify for award of the Contract, Bidders shall meet the following minimum qualifying criteria:

- (1) annual volume of construction work of at least the amount specified in the Bidding Data;
- (2) experience as prime contractor in the construction of at least two works of a nature and complexity equivalent to the Works over the last ten (10) years (to comply with this requirement, works cited should be at least seventy percent (70%) complete
- (3) proposals for the timely acquisition (own lease, hire, etc.) of the essential equipment listed in the Bidding Data;
- (4) a Contract Manager with five years experience in works of an equivalent nature and volume, including no less than three years as Manager; and
- (5) liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contracts, of no less than the amount specified in the Bidding Data.

A consistent history of litigation or arbitration awards against the Applicant or any partner of a joint operation may result in disqualification.

4.6 The figures for each of the partners of a joint operation shall be added together to determine the Bidder's compliance with the minimum qualifying of Sub-Clause 4.5 (a) and (e); however, for a joint operation to qualify, each of its partners must meet at least twenty-five percent (25%) of minimum criteria 4.5 (a), (b), and (e) for an individual Bidder, and the partner in charge at least forty percent (40%) of those minimum criteria. Failure to comply with this requirement will result in rejection of the joint operation's Bid. Subcontractor's experience and resources will not be taken into account in determining the Bidder's compliance with the data qualifying criteria, unless otherwise stated in the Bidding Data.

4.7 Deleted

5. One Bid per Bidder 5.1

Each Bidder shall submit only one Bid, either individually or as a partner in a joint operation. A Bidder who submits or participates in more than one Bid (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Bidder's participation to be disqualified.

6. Cost of Bidding 6.1

The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible or liable for those costs.

7. Site Visit 7.1

The Bidders, at the Bidder's own responsibility and risk, is encouraged to visit and examine the Site of Works and its surrounding and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting Site shall be at the Bidder's own expense.

B. Bidding Documents

- | | |
|--|--|
| 8. Content of Bidding Document | 8.1 The sets of bidding documents comprises the documents listed in the table below and addenda issued in according with Clause 10 :

Section : <ol style="list-style-type: none">1. Instructions to Bidders2. Forms of Bid and Qualification information3. Conditions of Contract4. Contract Data5. Specifications6. Drawings7. Bill of Quantities8. Form of Securities |
| | 8.2 Three copies of Section 2, 4, and 7 are supplied to the prospective Bidder. The number of copies to be completed and returned with the Bid is specified in the Bidding Data. |
| 9. Clarification of Bidding Documents | 9.1 A Prospective Bidder requiring any clarification of the bidding documents may notify the Employer in writing or by cable ("cable" includes telex and facsimile) at the Employer's address indicated in the invitation to bid. The Employer will respond to any request for clarification received earlier than twenty-eight (28) days prior to the deadline for submission of bids. Copies of the Employer's response will be forwarded to all purchasers of the bidding documents, including a description of the inquiry, but without identifying its source. |
| 10. Amendment of Bidding Documents | 10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda. |

10.2 Any addendum thus issued shall be part of the bidding documents and shall be communicated in writing or by cable to all purchasers of the bidding documents. Prospective bidders shall acknowledge receipt of each addendum by cable to the Employer.

10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Sub-Clause 20.2 below.

C. Preparation of Bids

11. Language of Bid 11.1 All documents relating to the Bid shall be in English

12. Documents Comprising the Bid 12.1 The Bid submitted by the Bidder shall comprise the following:

- (1) The Bid (in the format indicated in Section 2);
- (2) Bid Security;
- (3) Priced Bill of Quantities;
- (4) Qualification Information Form and Documents;
- (5) Alternative offers where invited;

And any other materials required to be completed and submitted by Bidders, as specified in the Bidding Data.

13. Bid Prices 13.1 The Contract shall be for the whole Works, as described in sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Bidder.

13.2 The Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

13.3 All duties, tax, and other levies payable by the Contractor under the Contract, or for any other cause, as of date 28 days prior to the deadline for submission of bids, shall be included in the rates, prices, and total Bid price submitted by the Bidder.

13.4 The rates and prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract if provided for in the Bidding and Contract Data and the provisions of Clause 47 of the Conditions of Contract. The Bidder shall submit with the Bid all the information required under the Contract Data and Clause 47 of the Conditions of Contract.

14. Currencies of Bid and Payment

14.1 The unit rates and prices shall be quoted by the Bidder entirely in the currency of the Employer's country as specified in the Contract Data. Foreign currency requirements shall be indicated as a percentage of the Bid price (excluding provisional sums) and shall be payable at the option of the Bidder in up to three foreign currencies of any member country. For the purpose of this clause, the European Currency Unit (ECU) is also considered an eligible currency.

14.2 The rates of exchange to be used by the Bidder in arriving at the local currency equivalent and the percentage(s) mentioned in paragraph 14.1 above shall be the selling rates for similar transactions established by the authority specified in the Contract Data prevailing on the 28 days prior to the latest deadline for submission of bids. These exchange rates shall apply for all payments so that no exchange risk will be borne by the Bidder. If the Bidder uses other rates of exchange, the provisions of Clause 28.1 shall apply. In any case, payments will be computed using the rates quoted in the Bid.

14.3 Bidders shall indicate details of their expected foreign currency requirements in the Bid.

14.4 Bidders may be required by the Employer to clarify their foreign currency requirements and to substantiate that the amounts included in the rates and prices and in the Contract Data are reasonable and responsive to Sub-Clause 14.1.

15. Bid Validity

15.1 Bid shall remain valid for the period specified in the Bidding data.

- 15.2 In exceptional circumstances, the Employer may request that the Bidder extend the period of validity for a specified additional period. The request and the bidder's responses shall be made in writing or by cable. A Bidder may refuse the request without forfeiting the Bid Security.

A bidder agreeing to the request will not be required or permitted to otherwise modify the Bid, but will be required to extend the validity of Bid Security for the period of the extension, and in compliance with Clause 16 in all respect.

- 15.3 In the case of contracts in which the Contract Price is fixed (not subject to price adjustment), if the period of bid validity is extended beyond 56 days, the amounts payable in local and foreign currency to the Bidder selected for award, shall be increased by applying to both the local and the foreign currency component of the payments, respectively, the factors specified in the Bidding Data or in the request for extension, for the period of delay beyond fifty-six (56) days after the expired of the initial bid validity, up to the notification of award. Bid evaluation will be based on the Bid prices without taking the above correction into consideration.

16. Bid Security

- 16.1 The Bidder shall furnish, as part of the Bid, a Bid Security in local currency or in a freely convertible currency, in the amount specified in the Bidding Data.

- 16.2 The Bid Security shall, at the Bidder's option, be in the form of a specified in the Bidding Data. The format of the Bid Security should be in accordance with the form of Bid Security included in Section 8 or another form acceptable to the Employer. Bid Security shall be valid for twenty-eight (28) days beyond the validity of the Bid.

16.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer. The Bid Security of a joint operation must define as "bidder" all joint operation partners and list them in the following manner : a joint operation consisting of "..... and"

16.4. The Bid Security of unsuccessful bidders will be returned within twenty-eight (28) days of the end of the Bid validity period specified in Sub-Clause 15.1.

16.5 The Bid Security of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security.

16.6 The Bid Security may be forfeited

- (1) if the Bidder withdraws the Bid after Bid opening during the period of Bid validity;
- (2) if the Bidder does not accept the correction of the Bid price, pursuant to Clause 27; or
- (3) in the case of the successful Bidder, if the Bidder fails within the specified time limit to :
 - sign the Agreement; or
 - furnish the required Performance Security.

17. Alternative proposals by Bidders

17.1 Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic technical design as indicated in the drawings and specifications. Alternatives will not be considered, unless specifically allowed in the Bidding Data. If so allowed, Sub-Clause 17.2 shall govern.

- 17.2 If so allowed in the Bidding Data, bidders wishing to offer technical alternatives to the requirements of the bidding documents must also submit a Bid that complies with the requirement of the bidding documents, including the basic technical design as indicated in the drawings and specifications. In addition to submitting the basic Bid, the Bidder shall provide all information necessary for a complete evaluation of the alternative by the Employer, including design calculations, technical specifications, breakdown of prices, proposed construction methods and other relevant details. Technical alternatives, if any, of the lowest evaluated Bidder conforming to the basic technical requirements shall be considered by the Employer.

**18. Format and
Signing of Bid**

- 18.1 The Bidder shall prepare one original of the documents comprising the Bid as described in Clause 12 of these Instructions to Bidder, bound with the volume containing the Form of Bid, and clearly marked "ORIGINAL". In addition, the Bidder shall submit copies of the bid, in the number specified in the Bidding Data, and clearly marked as "COPIES". In the event of discrepancy between them, the original shall prevail.
- 18.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Sub-Clause 4.3(a) or 4.4(b), as the case may be. All pages of the Bid where entries or amendments have been made shall be initialed by the person or persons signing the Bid.
- 18.3 The Bid shall contain no alternations or conditions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.
- 18.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

19. Sealing and Marking of Bids

19.1 The Bidder shall seal the original and all copies of the Bid in two inner envelopes and one outer envelope, duly marking the inner envelopes as "ORIGINAL" and "COPIES".

19.2 The inner and outer envelope shall :

- (1) be addressed to the Employer at the address provided in the Bidding Data;
- (2) bear the name and identification number of the Contract as defined in the Bidding and Contract Data; and
- (3) provide a warning not to open before the specified time and date for Bid opening as defined in the Bidding Data.

19.3 In addition to the identification required in Sub-Clause 19.2, the inner envelopes shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared late, pursuant to Clause 21.

19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

20. Deadline for Submission of Bids

20.1 Bids shall be delivered to the Employer at the address specified above no later than the time and date specified in the Bidding data.

20.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21. Late Bids

21.1 Any Bid received by the Employer after the deadline prescribed in Clause 20 will be returned unopened to the Bidder.

22. Modification and Withdrawal of Bids

- 22.1 Bidders may modify or withdraw their bids by giving notice in writing before the deadline prescribed in Clause 20.
- 22.2 Each Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clauses 18 and 19, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL", as appropriate.
- 22.3 No bid may be modified after the deadline for submission of Bids.
- 22.4 Withdrawal of a Bid between the deadline for submission of bids and the expiration of the period of Bid validity specified in the Bidding Data or as extended pursuant to Sub-Clause 15.2 may result in the forfeiture of the Bid Security pursuant to Clause 16.
- 22.5 Bidders may only offer discounts to, or otherwise modify the prices of their bids by submitting Bid modifications in accordance with this clause, or included in the original Bid submission.

E. Bid Opening and Evaluation

- 23. Bid Opening**
- 23.1 The Employer will open the bids, including modifications made pursuant to Clause 22, in the presence of the bidders representatives who choose to attend at the time and in the place specified in Bidding Data.
- 23.2 Envelopes marked "WITHDRAWAL" shall be opened and read first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause 22 shall not be opened.
- 23.3 The bidder's names, the Bid prices, the total amount of each Bid and of any alternative Bid (if alternative have been requested or permitted), any discounts, Bid modifications and withdrawal, the presence or absence of Bid Security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening.
- 23.4 The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Sub-Clause 23.3.
- 24. Process to be Confidential**
- 24.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any effort by a Bidder to influence the Employer's processing of bids or award decisions may result in the rejection of his Bid.
- 25. Clarification of Bids and Contracting the Employer**
- 25.1 To assist in the examination, evaluation, and comparison of Bids, the Employer may, at the Employer's discretion, ask any Bidder for clarification of the Bidder's Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex, or facsimile but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids in

accordance with Clause 27.

25.2 Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to its bid from the time of the bidding opening to the time the contract is awarded. If the bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.

25.3 Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

**26. Examination
of Bids and
Determination
of
Responsiveness**

26.1 Prior to the detailed evaluation of bids, the Employer will determine whether each Bid

- (1) meets the eligibility criteria defined in Clause 3;
- (2) has been properly signed;
- (3) is accompanied by the required securities; and
- (4) is substantially responsive to the requirements of the bidding documents.

26.2 A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one

- (1) which affects in any substantial way the scope, quality, or performance of the works;
- (2) which limits in any substantial way, inconsistent with the bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or
- (3) whose rectification would affect unfairly the competitive position of others bidders presenting substantially responsive bids.

26.3 If a Bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

27. Correction of Errors

27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follow :

where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern, and the unit rate will be corrected.

27.2 The amount stated in the Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Bid Security may be forfeited in accordance with Sub-Clause 16.6(b).

28. Currency for Bid Evaluation

28.1 Bids will be evaluated as quoted in the currency of Rupiah as defined in the Contract Data in accordance with Sub-Clause 14.1, unless a Bidder has used different exchange rates than those prescribed in Sub-Clause 14.2, in which case the Bid will be first converted into amounts payable in different currencies using the rates quoted in the Bid and then reconverted to Rupiah using the exchange rates prescribed in Sub-Clause 14.2.

29. Evaluation and Comparison of Bids

29.1 The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 26.

29.2 In evaluating the bids, the Employer will determine for each Bid the evaluated Bid price by adjusting the Bid price as follows :

- (1) making any correction for errors pursuant Clause 27;
- (2) excluding provisional sums and the provision if any, for contingencies in the Bill of Quantities, and including Day works, where priced competitively;
- (3) making appropriate adjustments for any other acceptable variations, deviations, or alternative offers submitted in accordance with Clause 22.5.
- (4) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with Sub-Clause 22.5.

29.3 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations and alternative offers and other factors which are in excess of the requirements of the bidding documents or otherwise result in unsolicited benefits for the Employer will not be taken into account in Bid evaluation

29.4 The estimated effect of any price adjustment conditions under Clause 47 of the Conditions of Contract, during the period of implementation of the Contract, will not be taken into account in Bid evaluation.

29.5 In the case of more than one package pursuant to clause 29.2 (d), the Employer will determine the application of discounts so as to minimize the cost of the combined packages.

**30. Preferences
for Domestic
Bidders**

30.1 If so indicated in the Bidding Data, domestic contractors may receive a margin of preference in Bid evaluation, for which this Clause shall apply.

30.2 Domestic bidders shall provide all evidence necessary to prove that they meet the following criteria to be eligible for a 7½ percent margin of preference in the comparison of their bids with those of bidders who do not qualify for the preference.

They should :

- (1) be registered within the country of the Employer;
- (2) have majority ownership by nationals of the country of the Employer;
- (3) not subcontract more than 50 percent of the Work measured in terms of value to foreign contractors; and
- (4) satisfy any other criteria specified for the purpose of domestic preference eligibility, as specified in the Bidding Data.

- 30.3
- (1) demonstrate a beneficiary interest of no less than 50 percent in the joint operation, as demonstrated by the profit and loss sharing provisions of the joint venture agreement;
 - (2) will, under the arrangements proposed, carry out at least 50 percent of the works, measured in terms of value, which shall exclude any materials or plant which are to be directly imported by the domestic partner(s) (always provided that the domestic partner or partner are qualified to carry out that amount of work, in accordance with the criteria of Sub-Clause 4.3); and
 - (3) satisfy any other criteria specified for the purpose of domestic preference eligibility, as specified in the Bidding Data 30.4.

30.4 The following procedure will be used to apply the margin of preference :

- (1) Responsive bids will be classified into the following groups;
- (2) Groups A : bids offered by domestic bidders and joint operations meeting the respective criteria of Sub-Clauses 30.2 and 30.3 above; and
- (3) Group B : all other bids
- (4) For the purpose of further evaluation and comparison of bids only, an amount equal to 7½ percent of the evaluated Bid prices determined in accordance with Clause 29.2(a), (b), and (d), will be added to all bids classified in Group B.

F. Award of Contract

31. Award Criteria

31.1 Subject to Clause 32, the Employer will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be

- (1) eligible in accordance with the provisions of Clause 3, and
- (2) qualified in accordance with the provisions of Clause 4.

32. Employer's Right to Accept any Bid and to Reject any or all Bids

32.1 Notwithstanding Clause 31, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

33. Notification of Award and Signing of Agreement

33.1 The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex, or facsimile confirmed by registered letter. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

33.2 The notification of award will constitute the formation of the Contract, subject to Bidder furnishing the Performance Security in accordance with Clause 34 and signing the Agreement in accordance with Sub-Clause 33.3.

33.3 The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and sent to the successful Bidder, within twenty-eight (28) days following the notification of award along with the Letter of Acceptance. Within twenty-one (21) days of receipt, the successful Bidder will sign the Agreement and deliver it to the Employer.

33.4 Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other bidders that their bids have been unsuccessful.

34. Performance Security

34.1 Within 21 days after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security in the amount stipulated in the Contract Data and in the form (Bank Guarantee and/or Bond) stipulated in the Bidding Data, denominated in the type and proportions of currencies in the Letter of Acceptance and in Accordance with the Conditions of Contract.

34.2 If the Performance Security is provided by the successful Bidder in the form of a Bank Guarantee, it shall be issued either at the Bidder's option, by a Bank located in Indonesia or a foreign bank through a correspondent bank located in Indonesia, or with the agreement of the Employer directly by a foreign bank acceptable to the Employer.

34.3 If the Performance Security is to be provided by the successful Bidder in the form of a Bond, it shall issued by a surety which the Bidder has determined to be acceptable to the Employer.

34.4 Failure of the successful Bidder to comply with the requirements of Sub-Clause 34.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.

35. Advance Payment and Security

35.1 The Employer will provide an Advance Payment on the Contract Price as stipulated in the Conditions of Contract, subject to maximum

amount, as stated in the Bidding Data.

- 36. Adjudicator** 36.1 The Employer proposes the person named in the Bidding Data to be appointed as Adjudicator under the Contract, at an hourly fee specified in the Bidding Data, plus reimbursable expenses. If the Bidder disagrees with this proposal, the Bidder should so state in the Bid. If, in the Letter of Acceptance, the Employer has not agreed on the appointment of the Adjudicator, the Adjudicator shall be appointed by the Appointing Authority designated in the Contract Data at the request of their party.

- 37. Corrupt or Fraudulent Practices** 37.1 The FA requires that Borrowers (including beneficiaries of FA) as well as Bidders/Suppliers/Contractors under FA contracts, observe the highest standard of ethic during the procurement and execution of such contracts. In pursuance of this policy, the FA :

- (1) Defines, for the purposes of this provision, the terms set forth below as follows :
 - "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - "fraudulent practice" means a misrepresentation of fact in order to influence a procurement process or the execution of contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competitions;
- (2) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (3) will declare a firm ineligible, after indefinitely or for a stated period of time, to be awarded a FA contract if it any time determines that the firm has engaged in corrupt or fraudulent practices in

competing for, or in executing, a FA contract.

- 37.2 Furthermore, Bidders shall be aware of the provision stated in sub-Clause 23.2 and sub-Clause 59.2 of the General Conditions of Contract

G. Bidding Data

Instructions to Bidders

Clause Reference

(2.1) The Borrower is the Government of the Republic of Indonesia.

(2.1) OECF hereinafter called "Funding Agency (FA)" means The Overseas Economic Cooperation Fund, Japan and loan/grant refers to an OECF Loan, which, as of the date of issue of the bidding documents *had been* approved by the FA.

(2.1) The Project is:
Flood Control, Urban Drainage and Water Resources Development in Semarang,

The Works towards which a portion of the proceeds of the loan from the FA are to be applied are:
Component: Urban Drainage System Improvement,
Package 2: Asin River Drainage System Improvement

The loan/grant number is
(insert number if available)

(4.3) The information required from bidders in Sub-Clause 4.3 is modified as follows :

Pursuant to clause 4.2, Bidders shall update any changes to the information requested in clause 4.3 which is different from that submitted in their prequalification submission. If information is unchanged bidders shall indicate to this effect in the respective parts of section 2.

(4.4) The qualification data required from bidders in Sub-Clause 4.4 are modified as follows :

This clause is not modified.

(4.5) The qualification criteria in Sub-Clause 4.5 are modified as follows:

This clause is not modified.

(4.5a) The minimum required annual volume of construction work for the successful Bidder in any of the five years shall be :

Deleted owing to pre-qualification having been conducted

(4.5c) The essential equipment to be made available for the Contract by the successful Bidder shall be :

Deleted owing to pre-qualification having been conducted.

(4.5e) The minimum amount of liquid assets and/or credit facilities net of other contractual commitments of the successful Bidder shall be Deleted owing to pre-qualification having been conducted.

(8.2) The number of copies of the Bid to be completed and returned shall be:

4 (four) comprising 1(one) original plus 3 copies

(12) The additional information required to be submitted by Bidders comprises the following documents in the format given in Section 2:

Appendix 1: List of Bid Enclosures

Appendix 2: General Time Schedule

Appendix 3: Unit Rate Analysis for Major Pay Items

Appendix 4: Basic Prices

Appendix 5: Execution Plan

Appendix 6: Data Sheets

(13.4) The Contract is subject to price adjustment in accordance with Clause 47 of the Conditions of Contract.

(13.5) A Unit Rate Analysis in the format shown in Appendix 3 of Section 2, excluding Indonesian VAT but including all other costs and charges, shall be provided by bidders to show a breakdown of materials, labour and construction plant and equipment needed for the execution of each Major Pay Item listed in Attachment 1 to Instructions to Bidders.
New Item

(13.6) Basic Prices in the format shown in Appendix 4 of Section
New Item 2, shall be provided by bidders to show the bases of calculation of Unit Rates, excluding overhead and profit but including all other costs and charges such as transport to the site.

(14.1) In Rupiah

(15.1) The period of Bid validity shall be one hundred and fifty (150) days after the deadline for Bid submission specified in the Bidding Data.

(15.3) This clause is not applicable as the Contract Price is subject to price adjustment.

(16.1) The amount of Bid security shall be two percent (2%).

(17) Alternative proposals to the requirements of the bidding documents will not be permitted with respect.

(19.2) The Employer's address for the purpose of Bid submission is:

The Tender Committee
Flood Control, Urban Drainage And Water Resources In
Semarang

Directorate General Of Water Resources Development
Ministry Of Public Works, Republic Of Indonesia
JRATUNSELUNA River Basin Development Project
Jalan Brigjen Sudiarto No. 375
Semarang 50191
Central Java
Indonesia

(20.1) The deadline for submission of bids shall be

Day :

Date :

Time :

The date of the exchange rate is twenty-eight days before Bid opening

The authority for establishing the rates of exchange shall be the Bank of Indonesia.

- (30) Not Applicable
- (34.0) The Standard Form of Performance Security acceptable to the Employer shall be Bank Guarantee or Security Bond.
- (35.0) The Advance Payment shall be limited to twenty percent (20%) of the Contract Price.
- (36.1) The Adjudicator, the hourly and reimbursables shall be mutually decided by the Employer and the successful bidder, as and when necessary.
- (36.1) The Appointing Authority shall be Badan Arbitrasi Nasional Indonesia (BANI).

ATTACHMENT 1 TO INSTRUCTION TO BIDDERS

LIST OF MAJOR PAY ITEMS

No.	BQ No.	Description	Unit
1	A.2.1	Contractor's Site Office and Facilities	L.S.
2	B.2.1	Common channel excavation including hauling and spoiling	m ³
3	B.2.2	Excavation below water level including hauling and treatment of contaminated soil	m ³
4	B.4.1	Furnishing and Driving PC Sheet Pile(t=220 mm)	m ³
5	C.2.1	Common channel excavation including hauling and treatment of contaminated soil	m ³
6	C.4.1	Structural Excavation	m ³
7	C.4.4	Backfill with Sandy Soil	m ³
8	C.4.8	Wet Stone Masonry	m ³
9	C.4.11	Log Pile, Dia. 150mm, L=4m	m
10	C.7.4	Concrete, Type C1 including Formwork, Scaffolding, and Falsework	m ³
11	C.7.6	Deformed Reinforcing Bars	kg
12	C.8.1	Precast Prestressed Concrete Beam including tensioning and erection	L.S.
13	D.2.10	Furnishing and Driving PC Piles, Dia. 500 mm, Type A	m
14	D.3.1	Furnishing and Installing Main Pump Units	set
15	D.3.2	Gear Boxes	set
16	D.3.3	Diesel Engine Units	set
17	D.4.1	Main Control Panel	L.S.
18	E.2.3	Hoist	set
19	G.1.1	Common Excavation including Hauling and Spoil	m ³
20	G.2.13	Furnishing and Driving PC Sheet Pile (t=220 mm)	m
21	I.1	Supplying Maintenance Equipment	

ATTACHMENT 2 TO INSTRUCTIONS TO BIDDERS

SOURCE : OECF LOAN HANDBOOK DATED, JANUARY, 1999

LIST OF ELIGIBLE SOURCE COUNTRIES (Subject to Change)

1. General Untying

Under general untying scheme, the eligible source countries are all countries and areas.

SECTION 2

**FORMS OF BID, QUALIFICATION INFORMATION, LETTER
OF ACCEPTANCE, AGREEMENT, AND APPENDICES**

SECTION 2

Standard Form : Contractor's Bid

.....{date}

To.....

{name of Employer}

Address

{insert address}

We offer to execute the {name and identification number of contract} in accordance with the Conditions of Contract accompanying this Bid for the Contract Price of {amount in words} (.....)
{amount in numbers} {name of currency}

The Contract shall be paid in the following currencies :

Currency	Percentage payable in currency	Rate of exchange One foreign currency equals to {insert number in this column}{insert local currency}	Inputs for which Foreign currency is Required

The advance payment required is :

Amount	Currency

We accept the appointment of *{name proposed in Bidding data}* as the Adjudicator.

{OR}

We do not accept the appointment of *{name proposed in Bidding Data}* as the Adjudicator, and propose instead that *{name}* be appointed as Adjudicator, whose daily fees and biographical data are attached.

The Bid and your written acceptance of it shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Bid you receive.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to Contract execution if we are awarded the contract are listed below.

We here by confirm that this Bid Complies with the Bid validity and Bid Security required by the bidding documents and specified in the Bidding Data.

Authorized Signature :

Name and Title of Signatory :

Name of Bidder :

Address :

Standard Form : Qualification Information

1. Individual Bidders or Individual Members of Joint Operation

1.1 Constitution or legal status of Bidder *{attach copy}*

Place of registration :

Principal place of business :

Power of attorney of signatory of Bid *{attach}*

1.2 Total annual volume of construction 19

work performed in five years, in 19

the internationally traded currency 19

specified in the Bidding Data 19

1.3 Work performed as prime Contractor on works of a similar nature and volume over the last five years. The values should be indicated in the same currency used for Item 1.2 above. Also list details of work under way or committed, including expected completion date.

Project name and country	Name of the Client and contact person	Type of work performed and year of completion	Value of the contract

1.4 Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below. Refer also to Sub-Clause 4.3(c) of the Instructions to Bidders. (Note: the equipment with over 5000 hours usage shall not be considered).

Item of equipment	Description make, and age (years)	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to purchased (from whom?)

1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to Sub-Clause 4.3(e) of the Instructions to Bidders and Sub-Clause 9.1 of the Conditions of Contract.

Position	Name	Years of experience (general)	Years of experience in proposed position
Project manager			
Etc.			

- 1.6 Proposed subcontracts and firm involved. Refer to Clause 7 of Conditions of Contract.

Section of the works	Value of subcontract	Subcontractor (name and address)	Experience in similar work

- 1.7 Financial reports for the last five years : balance sheets, profit and loss statements, auditors, reports, etc.

List below and attach copies.

.....

- 1.8 Evidence of access to financial resources to meet the qualifications requirements : cash in hand, lines of credit, etc.

List below and attach copies of support documents.

.....

- 1.9 Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the Employer.

.....

- 1.10 Information on current litigation in which the Bidder is involved.

Other Parties	Cause of dispute	Amount involved

- 1.11 Statement of compliance with the requirements of Sub-Clause 3.2 of the Instructions to Bidders.

.....
.....
.....

- 1.12 Proposed Program (work method and schedule). Description, drawing, and charts, as necessary, to comply with the requirements of the bidding documents.

Use the format given in Appendix 2 for the Schedule
Refer to Appendix 5 for guidelines regarding content of execution plan.

2. Joint Operation

- 2.1 The information listed in 1.1-1.11 above shall be provided for each partner of the joint venture.

- 2.2 The information in 1.12 above shall be provided for the joint venture.

- 2.3 Attach the power of attorney of the signatories of the Bid authorizing signature of the Bid on behalf of the joint venture.

- 2.4 Attach the Agreement among all partners of the joint operation (and which is legally binding on all partners), which shows that:

- (a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
- (b) one of the partners will be nominated as being in charge, authorized to incur liabilities, and receive instructions for and on behalf of any and all partners of the joint ventures; and
- (c) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

3. Additional Requirements

- 3.1 Bidders should provide any additional information required in the Bidding Data or to fulfill the requirements of Sub-Clause 4.1 and Clause 30 of the Instructions to Bidders, if applicable.

Standard Form : Letter of Acceptance

{letterhead paper of the Employer}

.....*{date}*

To :

{name of Contractor}

.....

{address of the Contractor}

This is to notify you that your Bid datedfor execution of the
.....*{name of the Contract and
identification number, as given in the Contract Data}* for the Contract Price of the
equivalent of (*{name of currency}*)
{amount in numbers and words}.....*{name of currency}*, as corrected
and modified in accordance with the instructions to Bidders is hereby accepted by our
Agency.

(a) We accept that
{name proposed by bidder} be appointed as the Adjudicator.

(b) We do not accept that
{name proposed by bidder} be appointed as Adjudicator, and by sending a copy of
this letter of acceptance to *{insert the name of the Appointing Authority}*,
we are hereby requesting the
Appointing Authority, to appoint the Adjudicator in accordance with Clause 36.1 of
the Instructions to Bidder.

You are hereby instructed to proceed with the execution of the said Works in
accordance with the Contract documents.

Authorized Signature :

Name and title of Signatory :

Name of Agency :

Attachment : Agreement

Standard Form : Agreement

AGREEMENT

This Agreement, made the..... day of 19between
name and address of Employer (hereinafter called "the Employer") and
.....*{name and address of contractor}*
(hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that the Contractor execute
.....*{name and identification number of contract}*
(hereinafter called "the Works") and the Employer has accepted the Bid by the
Contractor for the execution and completion of such Works and the remedying of any
defect therein.

NOW THIS AGREEMENT WITNESSETH as follows :

In this Agreement, words and expression shall have the same meaning as are
respectively assigned to them in the Conditions of contract hereinafter referred to, and
they shall be deemed to form and be read and construed as part of this agreement.

In consideration of the payments to be made by the Employer to the Contractor as
hereinafter mentioned, the Contractor hereby covenants with the Employer to execute
and complete the Works and remedy any defects therein in conformity in all respects
with the provisions of the Contract.

The Employer hereby confirms to pay the Contractor in consideration of the execution
and completion of the Works and the remedying of defects wherein the Contract Price
or such other sum as may become payable under the provisions of the Contract at the
times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed
the day and year first before written.

The common seal of :
was hereunto affixed in the presence of :
Signed, Sealed, and Delivered by said :
in the presence of :

Binding Signature of Employer :
Binding Signature of Contractor :

Flood Control, Urban Drainage and Water Resources Development in Semarang

Component : Urban Drainage System Improvement

Package 2 : Asin River Drainage System Improvement

APPENDIX 1 - LIST OF BID ENCLOSURES

NAME OF BIDDER :

NO.*)	DESCRIPTION	REMARKS

Note :

**) = The Bidder is to give progressive numbers which correspond to the numbers marked on the relevant documents.*

This form is to be completed by the Bidder and appended to his Bid.

Flood Control, Urban Drainage and Water Resources Development in Semarang

Component : Urban Drainage System Improvement

Package 2 : Asin River Drainage System Improvement

APPENDIX 2 - GENERAL TIME SCHEDULE

NAME OF BIDDER :

NO.	WORK ACTIVITIES	WORK %	MONTH						
			1	2	3	4
TOTAL WORK		100 %							
MONTHLY PROGRESS		%							
CUMULATIVE PROGRESS		%							

Note :

"S" Curve and Bar Chart shall be plotted.

This form is to be completed by the Bidder and appended to the bid.

Flood Control, Urban Drainage and Water Resources Development in Semarang

Component : Urban Drainage System Improvement

Package 2 : Asin River Drainage System Improvement

APPENDIX 3 - UNIT RATE ANALYSIS FOR MAJOR PAY ITEMS

NAME OF BIDDER :

ITEM NUMBER:

DESCRIPTION OF WORK:

UNIT OF WORK:

QUANTITY OF WORK: *)

DAILY/HOURLY OUTPUT: *)

NO.	DESCRIPTION	UNIT	QTY	UNIT COST		AMOUNT	
				Foreign	Local	Foreign	Local
I	MATERIALS						
	1						
	2						
	3						
II	LABOUR						
	1						
	2						
	3						
III	PLANT AND EQUIPMENT						
	1						
	2						
	3						
SUB-TOTALS							
IV	OVERHEAD AND PROFIT						
V	TOTAL PRICE						
VI	UNIT PRICE						

Note :

*) To be filled in where calculation is based on daily or hourly output. The Bidder is to complete one of these forms for every item included in Attachment 1 to the Instructions to Bidders and appended to his bid.

Flood Control, Urban Drainage and Water Resources Development in Semarang

Component : Urban Drainage System Improvement

Package 2 : Asin River Drainage System Improvement

APPENDIX 4 -BASIC PRICES

NAME OF BIDDER :

ITEM	DESCRIPTION	UNIT	UNIT COST	
			Foreign	Local
I	MATERIALS			
	1			
	2			
	3 and so on			
II	LABOUR			
	1			
	2			
	3 and so on			
III	EQUIPMENT			
	1			
	2			
	3 and so on			

Flood Control, Urban Drainage and Water Resources Development in Semarang

Component : Urban Drainage System Improvement

Package 2 : Asin River Drainage System Improvement

APPENDIX 5 - EXECUTION PLAN

Instructions :

Each Bidder shall submit with his Bid, documents which contain sufficient data to demonstrate his ability to execute the Works. This shall include, but not be limited to :

- 1.0 *His proposal for human resources which shall contain the following :*
 - 1.1 *A list of supervisory personnel proposed to be assigned full time including details of their qualifications and experience.*
 - 1.2 *An organisation diagram of the Bidder's supervisory personnel as mentioned above.*
 - 1.3 *A labour schedule on quarterly basis showing his estimated number of personnel for various categories*
- 2.0 *His proposal for plant and equipment to be used including description, unit number, capacity or output, trade mark or type, year of manufacture, present condition (%) and ownership. Note that any item of equipment with more than 5000 (five thousand) working hours will not be accepted.*
- 3.0 *His plan for executing the Works which shall include the following :*
 - 3.1 *The general plan presented in the form of a method statement and sketches.*
 - 3.2 *Specific details in the form of method statements (sketches and text) of the proposed construction method including the following:*
 - 3.2.1 *Mobilisation and Demobilisation*
Including site offices and facilities for the Contractor and the Engineer.
 - 3.2.2 *Preparatory Works :*
 - a. *Method of establishing horizontal and vertical control for setting out the Works.*
 - b. *Method and routes for transportation of equipment to the various parts of the site.*
 - c. *Construction of workshops, warehouses, labour quarters and any other temporary facilities to be constructed. Details of the above shall include water supply, electric, telephone and sanitary services, locations, quantities, type and completion times.*

- d. *Construction of temporary access roads including the necessary reinforcement of existing bridges or culverts.*
- e. *Temporary river diversion works, coffer dams etc.*
- f. *Demolition of existing structures, etc.*

3.2.3 Earthworks :

- a. *Plan for excavation of the Semarang River, the Semarang River relocation, the Asin River Improvement and the Asin Retarding Pond showing proposed methods and equipment to be used.*
- b. *Plan for the hauling and treatment of spoil:*

3.2.4 Revetment and Dike Works :

Include details of construction method and cofferdams.

3.2.5 Asin Box Culvert

Include details of construction method, shoring of excavation and special measures taken for construction in an urban street.

3.2.6 Bridge Construction

Include proposed method of beam construction.

3.2.7 Asin Pumping Station

Include method statement for civil works, fabrication and installation of mechanical and electrical plant.

3.2.8 Building Works

Include a general plan for building works.

3.2.9 Roadworks

Include a general plan for roadworks

3.2.10 Utility Reconstruction

Include details of proposed methods for relocating and reconstructing water and telephone services.

3.2.11 Other Works

4.0 Work to be Subcontracted :

Bidders shall give details of portions of the work proposed to be subcontracted.

5.0 Break-down of Lump-Sum Prices :

Bidders shall give a break-down of all lump-sum prices entered in their bids. Such break-downs shall include the costs of the various categories of cost, described in the General and Technical Specification, for the purpose of payment.

Flood Control, Urban Drainage and Water Resources Development in Semarang

Component : Urban Drainage System Improvement

Package 2 : Asin River Drainage System Improvement

APPENDIX 6 – DATA SHEETS

Data Sheet M-1

Main Pump		
Item	Symbols	Date Entered by Bidder
Manufacturer's Name		
Type of Main Pump		Screw Pump
Pump capacity	Q	m ³ /s
Total Efficiency of Pump Unit		%
Required Engine Capacity	P	kW
Rotation Speed (Rated)	r	rpm
Lowest Water Level of Basin	LLWL	m
High Water Level of Spillway	HHWL	m
Fill Point of Screw Pump (equal to L.L.W.L.)	FP	m
Chute point of Screw Pump (ground level of the pump station site)	CP	m
Maximum Pumping Point of Screw Pump (CP + Cos.β x 1.5)m	MPP	m
Angle of Inclination of Screw Pump	β	degree
Head of Screw Pump (MPP + L.L.W.L.)	H	m
Material of Center Tube		
Thickness of Centre Tube		mm
Diameter and Tolerance of Centre Tube		mm, ± mm
Deflection of Centre tube between the bearing centre line		mm
Diameter and Tolerance of Screw Flights		mm, ± mm
Screw Flights Pitch		mm
Number of Screw Flights		
Material of Screw Flights		
Thickness of Screw Flight		mm

Clearance between outer edge of flights and inner face of concrete trough		mm
Length of Screw Flights ($H/\sin \beta$)		m
Length of Centre Tube		m
Total Weight of Pump Unit		Kg
Warranty Details and Duration		

Data Sheet M-2

Diesel Engine Unit (Main Pump Driving Unit)			
Item	Date Entered by Bidder		
Manufacturer’s Name			
Type			
Cooling System			
Lubricant System			
Continuous Output Capacity	kW		
Withstand Capacity for 1 hour operation	kW		
Rotation Speed	rpm		
Type of Fuel			
Fuel Consumption at rated output	litre/h		
Capacity of Self contained fuel tank	litre/h		
Number of Cylinder			
Bore and Stroke of Cylinder	mm	mm	
Total Displacement	litre		
Voltage and Capacity of Cell-motor	DC	V,	kW
Capacity of Starting Battery Unit		V,	Ah
Outer dimension : Length	mm		
Width	mm		
Height	mm		
Gross Weight	Kg		
Warranty Details and Duration			

Data Sheet M-3

Auxiliary Equipment for Diesel Engine Unit			
Equipment	Item	Date Entered by Bidder	
Fuel Transfer Pump	Manufacturer's Name		
	Driving motor	AC Phase, V, kW	
	Transfer Capacity	litre/min	
	Warranty Details and Duration		
Fuel Storage Tank:	Manufacturer's Name		
	Type	Underground installation	
	Form		
	Volume	litre	
	Outer Dimensions	Length	mm
		Width(Diameter)	mm
		Height	mm
	Surface Protection		
	Grounding System		
	Cathodic Protection		
Warranty Details and Duration			
Fuel Service Tank	Manufacturer's Name		
	Type	Indoor Exposed installation	
	Form		
	Volume	litre	
	Outer Dimension	Length	mm
		Width(Diameter)	mm
		Height	mm
	Surface Protection		
Warranty Details and Duration			

Data Sheet M-4

Gear Box		
Item	Date Entered by Bidder	
Manufacturer's Name		
Type		
Cooling System		
Lubricant System		
Material of Housing		
Capacity	kW	
Ratio of Reduction		
Connection method to Diesel engine		
Connection method to Screw Pump		
Outer Dimensions	Length	mm
	Width	mm
	Height	mm
Gross Weight	kg	
Warranty Details and Duration		

Data Sheet M-5

Lower Bearing Assembly		
Item	Date Entered by Bidder	
Manufacturer's Name		
Type		
Accuracy		
Lubricant System		
Material of Housing		
Outer Dimension	Length	mm
	Width	mm
	Height	mm
Gross Weight	Kg	
Warranty Details and Duration		

Data Sheet M-6

Upper Bearing Assembly		
Item		Date Entered by Bidder
Manufacturer's Name		
Type		
Accuracy		
Lubricant System		
Material of Housing		
Width	mm	mm
Height	mm	
Gross Weight	Kg	
Warranty Details and Duration		

Data Sheet M-7

Auxiliary Drainage Pump System		
Item		Date Entered by Bidder
Manufacturer's Name		
Type of Pump		
Drainage Capacity		m ³ /min
Head		m
Sealing System		
Protection System	Water leakage detect	
	Inside temperature	
Method of Fixing		
Type of Water Level Detector		
Driving Motor (Electrical)		AC Phase, V, kW
Insulation Class of Motor		
Index of Protection Grade of Control Panel		IP
Warranty Details and Duration		

Data Sheet M-8

Overhead Crane System	
Item	Date Entered by Bidder
Manufacturer's Name	
Type	
Capacity	tonne
Lifting Height	m
Weight	Kg
Warranty Details and Duration	

Data Sheet M-9

Water Gate System	
Item	Date Entered by Bidder
Manufacturer's Name	
Type	
Material of Gate	
Effective Span	mm
Effective Height	mm
Lifting Height	m
Hoisting Method	
Hoisting Speed	m/min
Sealing System	
Driving Unit (Electric Motor)	AC Phase, V, kW
Index of Protection of Control Panel	IP
Weight	Kg
Warranty Details and Duration	

Data Sheet M-10

Spare Parts		
Equipment or System	Data Entered by Bidder	
	Item	Details
Main Pump		
Diesel Engine		
Fuel Transfer Pump		
etc. <i>Bidder to continue list</i>		

Note: Bidder is to complete the above table for each item of equipment in accordance with clause TS 23.1.8 of the Technical Specification. Additional sheets should be attached showing comprehensive details of recommended spare parts to be provided.

Data Sheet M-11

Maintenance Tools		
Equipment or System	Data Entered by Bidder	
	Item	Details
Main Pump		
Diesel Engine		
Fuel Transfer Pump		
etc <i>Bidder to continue list</i>		

Note: Bidder is to complete the above table for each item of equipment in accordance with clause TS 23.1.8 of the Technical Specification. Additional sheets should be attached showing comprehensive details of recommended maintenance tools to be provided

Data Sheet M-12

Backhoe	
Item	Data Entered by Bidder
Manufacturer's Name	
Type	
Capacity of Bucket (0.35 m. ³ min)	
Swing Radius (2.1 m min)	
Technical Data	1)
Warranty Details and Duration	

1) Bidder to attach technical specification of the product offered.

Data Sheet M-13

Dump Truck	
Item	Data Entered by Bidder
Manufacturer's Name	
Type	
Load Capacity	
Engine Horsepower	
Technical Data	1)
Warranty Details and Duration	

1) Bidder to attach technical specification of the product offered.

Data Sheet M-14

Truck Crane	
Manufacturer's Name	For Truck For Crane
Type	
Crane Details : Load Capacity (min 2.2 tonne) Swing Radius (min 1.8 m)	
Truck Details Model No/ Length Width	
Truck Body Details : Tray Dimensions	
Technical Data	1)
Warranty Details and Duration	

1) Bidder to attach technical specification of the product offered.

Data Sheet M-15

Garbage Container	
Manufacturer's Name	
Type	
Volume (minimum 6 m ³)	m ³
Is the proposed garbage container of a type and model approved by Kotamadya Semarang, Dinas Kebersihan dan Pertamanan	
Technical Data	1)

1) Bidder to attach sketch and technical specification.

Data Sheet E-1

Generator Unit			
Item	Data Entered by Bidder		
Manufacturer's Name			
(1) Diesel Engine System			
Type			
Cooling System			
Lubricant System			
Continuous Output Capacity	kW		
Withstand Capacity for 1 hour operation	kW		
Rotation Speed	rpm		
Type of Fuel			
Fuel Consumption at rated output	litre/h		
Capacity of Self contained fuel tank	litre/h		
Number of Cylinder			
Bore and Stroke of Cylinder	mm	mm	
Total Displacement	litre		
Voltage and Capacity of Cell-motor	DC	V,	kW
Capacity of Starting Battery Unit	V,	Ah	
(2) Generator System			
Type			
Output System	Phase,	Wires	
Rated Voltage	AC	V	
Rated Frequency	Hz		
Continuous Output Capacity	kW		
Number of Pole			
Rotation Speed	rpm		
Power Factor	%		
Excitation System			
(3) Unit Dimensions			
Total Outer Length	m		
Total Outer Width	m		
Total Outer Height	m		
Total Weight	Kg		
Warranty Details and Duration			

Data Sheet E-2

Main Control Panel (Distribution and Indication Panels)			
Item		Data Entered by Bidder	
Manufacturer's Name			
Type			
Index of Protection		IP	
Thickness of Enclosure		mm	
Thickness of Doors		mm	
Thickness of Interior Partition		Mm	
Type of Circuit Breakers			
Type of Battery Charger			
Power Supply System to charger		AC	V, Phase
Capacity of Battery Charger		kW	
Type of Wave Form Filter			
Rated Current of Socket Outlet		Poles,	AC V, A
Warranty Details and Duration			

Data Sheet E-3

Control Panel for Auxiliary Drainage Pumps			
Item		Data Entered by Bidder	
Manufacturer's Name			
Type			
Index of Protection		IP	
Thickness of Enclosure		mm	
Thickness of Doors		mm	
Thickness of Interior Partition		mm	
Type of Circuit Breakers			
Type of Water Level Detectors			
Outer Dimension	Length	mm	
	Width	mm	
	Height	mm	
Gross Weight		Kg	
Warranty Details and Duration			

Data Sheet E-4

Control Panel for Gate Lift		
Item	Data Entered by Bidder	
Manufacturer's Name		
Type		
Index of Protection	IP	
Thickness of Enclosure	mm	
Thickness of Doors	mm	
Thickness of Interior Partition	mm	
Type of Circuit Breakers		
Type of Operation Switch		
Type of Alarm system		
Alarm Items		
Type of Automatic Stop System		
Outer Dimensions	Length	mm
	Width	mm
	Height	mm
Gross Weight	Kg	
Warranty Details and Duration		

Data Sheet E-5

Local Switch for Fuel Transfer Pump		
Item		Data Entered by Bidder
Manufacturer's Name		
Type		
Index of Protection		IP
Type of Circuit Breakers		
Type of Operation Switch		
Type of Alarm system		
Alarm Items		
Outer Dimensions	Length	mm
	Width	mm
	Height	mm
Warranty Details and Duration		

Data Sheet E-6

Spare Parts		
Equipment or System	Data Entered by Bidder	
	Item	Details
Generator Unit		
Main Control Panel		
Control Panel for Auxiliary Drainage Pumps		
etc. <i>Bidder to continue list</i>		

Note: Bidder is to complete the above table for each item of equipment. Additional sheets should be attached showing comprehensive details of recommended spare parts to be provided.

Data Sheet E-7

Maintenance Tools		
Equipment or System	Data Entered by Bidder	
	Item	Details
Generator Unit		
Main Control Panel		
Control Panel for Auxiliary Drainage Pumps		
etc <i>Bidder to continue list</i>		

Note: Bidder is to complete the above table for each item of. Additional sheets should be attached showing comprehensive details of recommended maintenance tools to be provided.