

# **Bidding Documents**

**For**

## **Procurement of Science Material**

**For Govt. English Medium School in  
Cambridge System in Different Districts of  
Sindh**

### **(TECHNICAL PROPOSAL)**

**OFFICE OF THE PROJECT DIRECTOR  
PROJECT MANAGEMENT & IMPLEMENTATION UNIT**

**SCHOOL EDUCATION DEPARTMENT  
KARACHI**

**PART ONE (FIXED)**

- 
- Instructions to Bidders (ITB)
  - General Conditions of Contract (GCC)

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## **RECEIPT**

Issued to M/s. \_\_\_\_\_

Rs. \_\_\_\_\_ (Non-Refundable Non-Transferable)

Pay order / Demand Draft No. \_\_\_\_\_ Date \_\_\_\_\_

PROJECT DIRECTOR  
Project management & Implementation Unit  
Karachi

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## **Part One - Section I.**

### **Instructions to Bidders**

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## **Instructions to Bidders**

### **A. Introduction**

#### **1. Source of Funds**

1.1 The Procuring agency has received / applied for loan / grant federal / provincial / local government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project / schemes specified in the bidding data and it is intended that part of the proceeds of this loan/grant/funds/ will be applied to eligible payments under the contract for which these bidding documents are issued.

1.2 Payment by the Fund will be made only at the request of the Procuring agency and upon approval by the Government of Sindh, and in case of a project will be subject in all respect to the terms and conditions of the agreement. The Project Agreement prohibits a withdrawal from the allocated fund 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 Federal Government/ Sindh Government, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Procuring agency shall derive any rights from the Project Agreement or have any claim to the allocated fund proceeds.

#### **2. Eligible Bidders**

2.1 This Invitation for Bids is open to all suppliers from eligible source as defined in the SPP Rules, 2010 and its Bidding Documents except as provided hereinafter.

2.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring agency to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.

2.3 Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.

2.4 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by the any government organization in accordance with sub clause 34.1

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### **3. Eligible Goods and Services**

3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, defined in the SPP Rules 2010 and its Bidding Documents, and all expenditures made under the contract will be limited to such goods and services.

3.2 For purposes of this clause, “origin” means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of goods and services is distinct from the nationality of the Bidder.

### **4. Cost of Bidding**

4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency named in the Bid Data Sheet, hereinafter referred to as “the Procuring agency,” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

## **B. The Bidding Documents**

### **5. Content of Bidding Documents**

#### **5.1 the bidding documents include:**

- (a) Instructions to Bidders (ITB)
- (b) Bid Data Sheet
- (c) General Conditions of Contract (GCC)
- (d) Special Conditions of Contract (SCC)
- (e) Schedule of Requirements
- (f) Technical Specifications
- (g) Bid Form and Price Schedules
- (h) Bid Security Form
- (i) Contract Form
- (j) Performance Security Form
- (k) Manufacturer’s Authorization Form

5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in the rejection of its bid.

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## **6. Clarification of**

**Bidding Documents** 6.1 A interested Bidder requiring any clarification of the bidding documents may notify the Procuring agency in writing. The Procuring agency will respond in writing to any request for clarification of the bidding documents which it receives no later than three working days prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the Procuring agency's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all interested bidders that have received the bidding documents.

## **7. Amendment of Bidding Documents**

7.1 At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by a interested Bidder, may modify the bidding documents by amendment.

7.2 All interested bidders that have received the bidding documents will be notified of the amendment in writing, and will be binding on them.

7.3 In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids.

## **C. Preparation of Bids**

## **8. Language of Bid**

8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the Bid Data Sheet, in which case, for purposes of interpretation of the Bid, the translation shall govern.

## **9. Documents Comprising the Bid**

9.1 The bid prepared by the Bidder shall comprise the following components:

- (a) a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12;
- (b) documentary evidence established in accordance with ITB

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Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;

(c) documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and

(d) bid security furnished in accordance with ITB Clause 15.

## **10. Bid Form**

10.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

## **11. Bid Prices**

11.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.

11.2 Prices indicated on the Price Schedule shall be delivered duty paid (DDP) prices. The price of other (incidental) services, if any, listed in the Bid Data Sheet will be entered separately.

11.3 The Bidder's separation of price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating the comparison of bids by the Procuring agency and will not in any way limit the Procuring agency's right to contract on any of the terms offered.

11.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A bid submitted with an adjustable price quotation will be treated as nonresponsive and will be rejected, pursuant to ITB Clause 24. If, however, in accordance with the Bid Data Sheet, prices quoted by the Bidder shall be subject to adjustment during the performance of the contract, a bid submitted with a fixed price quotation will not be rejected, but the price adjustment would be treated as zero.

## **12. Bid Currencies**

12.1 Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.



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**13. Documents  
Establishing  
Bidder's  
Eligibility and  
Qualification**

13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted

13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.

13.3 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Procuring agency's satisfaction:

(a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country;

(b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;

(c) that, in the case of a Bidder not doing business within the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and

(d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.

**14. Documents  
Establishing Goods'  
Eligibility and  
Conformity to  
Bidding Documents**

14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.

14.2 The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:

(a) a detailed description of the essential technical and performance characteristics of the goods;

(b) a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and

(c) an item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

## **15. Bid Security**

15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.

15.2 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.

15.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:

(a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or

(b) irrevocable encashable on-demand Bank call-deposit.

15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as nonresponsive, pursuant to ITB Clause 24.

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15.5 Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the Procuring agency pursuant to ITB Clause 16.

15.6 The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.

15.7 The bid security may be forfeited:

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or

(b) in the case of a successful Bidder, if the Bidder fails:

(i) to sign the contract in accordance with ITB Clause 32; **or**

(ii) to furnish performance security in accordance with

ITB Clause 33.

## **16. Period of Validity of Bids**

16.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring agency as nonresponsive.

16.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

## **17. Format and Signing of Bid**

17.1 The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.

17.2 The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

17.3 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.

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17.4 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**

### **18. Sealing and Marking of Bids**

18.1 The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” The envelopes shall then be sealed in an outer envelope.

18.2 The inner and outer envelopes shall:

(a) be addressed to the Procuring agency at the address given in the Bid Data Sheet; and

(b) bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.

18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared “late”.

18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring agency will assume no responsibility for the bid’s misplacement or premature opening.

### **19. Deadline for Submission of Bids**

19.1 Bids must be received by the Procuring agency at the address specified under ITB Clause 18.2 no later than the time and date specified in the Bid Data Sheet.

19.2 The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 7, in which case all rights and obligations of the Procuring agency and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

### **20. Late Bids**

20.1 Any bid received by the Procuring agency after the deadline for submission of bids prescribed by the Procuring agency pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.

### **21. Modification and Withdrawal of Bids**

**22. Opening of Bids  
by the Procuring  
agency**

21.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.

21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 18. by a signed confirmation copy, postmarked not later than the deadline for submission of bids.

21.3 No bid may be modified after the deadline for submission of bids.

21.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 15.7.

**E. Opening and Evaluation of Bids**

22.1 The Procuring agency will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.

22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.

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22.3 Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.

22.4 The Procuring agency will prepare minutes of the bid opening.

**23. Clarification of Bids**

23.1 During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

**24. Preliminary Examination**

24.1 The Procuring agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.

24.3 The Procuring agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

24.4 Prior to the detailed evaluation, pursuant to ITB Clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. The Procuring agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

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24.5 If a bid is not substantially responsive, it will be rejected by the Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

**25.Evaluation and  
Comparison of Bids**

25.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.

25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing duties and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

25.3 The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:

- (a) incidental costs
- (b) delivery schedule offered in the bid;
- (c) deviations in payment schedule from that specified in the Special Conditions of Contract;
- (d) the cost of components, mandatory spare parts, and service;
- (e) the availability Procuring agency of spare parts and after sales services for the equipment offered in the bid;
- (f) the projected operating and maintenance costs during the life of the equipment;
- (g) the performance and productivity of the equipment offered; and/or
- (h) other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.

25.4 For factors retained in the Bid Data Sheet pursuant to ITB 25.3, one or more of the following quantification methods will be applied, as detailed in the Bid Data Sheet:

- (a) Incidental costs provided by the bidder will be added by Procuring agency to the delivered duty paid (DDP) price at the final destination.

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(b) *Delivery schedule.*

(i) The Procuring agency requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements which will be treated as the base, a delivery “adjustment” will be calculated for bids by applying a percentage, specified in the Bid Data Sheet, of the DDP price for each week of delay beyond the base, and this will be added to the bid price for evaluation. No credit shall be given to early delivery.

**or** (ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

**or** (iii) The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price a factor equal to a percentage, specified in the Bid Data Sheet, of DDP price per week of variation from the specified delivery schedule.

(c) *Deviation in payment schedule.*

(i) Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The Procuring agency may consider the alternative payment schedule offered by the selected Bidder.

**or** (ii) The SCC stipulates the payment schedule offered by



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the Procuring agency. If a bid deviates from the schedule and if such deviation is considered acceptable to the Procuring agency, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared with those stipulated in this invitation, at the rate per annum specified in the Bid Data Sheet.

(d) *Cost of spare parts.*

(i) The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the Bid Data Sheet, is annexed to the Technical Specifications. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price.

**or**

(ii) The Procuring agency will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the Bid Data Sheet. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the bid price.

**or**

(iii) The Procuring agency will estimate the cost of spare parts usage in the initial period of operation specified in the Bid Data Sheet, based on information furnished by each Bidder, as well as on past experience of the Procuring agency or other procuring agencies in similar situations. Such costs shall be added to the bid price for evaluation.

(e) *Spare parts and after sales service facilities in the Procuring agency's country.*

The cost to the Procuring agency of establishing the minimum service facilities and parts inventories, as outlined in the Bid Data Sheet or elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.

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(f) *Operating and maintenance costs.*

Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the Bid Data Sheet or in the Technical Specifications.

(g) *Performance and productivity of the equipment.*

(i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the Bid Data Sheet will be added to the bid price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the Bid Data Sheet or in the Technical Specifications.

**or**

(ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the bid, and adjustment will be added to the bid price using the methodology specified in the Bid Data Sheet or in the Technical Specifications.

(h) *Specific additional criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.*

The relevant evaluation method shall be detailed in the Bid Data Sheet and/or in the Technical Specifications.

**Alternative**

**25.4 Merit Point System:**

The following merit point system for weighing evaluation factors can be applied if none of the evaluation methods listed in 25.4 above has been retained in the Bid Data Sheet. The number of points allocated to each factor shall be specified in the Bid Data Sheet.

*[In the Bid Data Sheet, choose from the range of]*

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Evaluated price of the goods	60 to 90
Cost of common list spare parts	0 to 20
Technical features, and maintenance and operating costs	0 to 20
Availability of service and spare parts	0 to 20
Standardization	0 to 20
Total	100

The bid scoring the highest number of points will be deemed to be the lowest evaluated bid.

## **26. Contacting the Procuring agency**

26.1 Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.

26.2 Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

## **F. Award of Contract**

## **27. Post-qualification**

27.1 In the absence of prequalification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.

27.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.

27.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

## **28. Award Criteria**

28.1 Subject to ITB Clause 30, the Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is

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determined to be qualified to perform the contract satisfactorily.

**29. Procuring agency's Right to Vary Quantities at Time of Award**

29.1 The Procuring agency reserves the right at the time of contract award to increase or decrease, by the percentage indicated in the Bid Data Sheet, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

**30. Procuring agency's Right to Accept any Bid and to Reject any or All Bids**

30.1 The Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, 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 Procuring agency's action.

**31. Notification of Award**

31.1 Prior to the expiration of the period of bid validity, the Procuring agency will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.

31.2 The notification of award will constitute the formation of the Contract.

31.3 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.

**32. Signing of Contract**

32.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.

32.2 Within thirty (30) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.

**33 Performance Security**

33.1 Within twenty (20) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.

33.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid

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security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.

**34. Corrupt or Fraudulent Practices**

34.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2010 and Rules made thereunder:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial noncompetitive levels and to deprive the Procuring agency of the benefits of free and open competition;

(b) 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;

(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.

34.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 5.4 and sub-clause 24.1 of the General Conditions of Contract.

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## **Part One - Section II.**

### **General Conditions of Contract**

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## **General Conditions of Contract**

**1. Definitions** 1.1 In this Contract, the following terms shall be interpreted as indicated:

(a) “The Contract” means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

(b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.

(c) “The Goods” means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring agency under the Contract.

(d) “The Services” means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.

(e) “GCC” means the General Conditions of Contract contained in this section.

(f) “SCC” means the Special Conditions of Contract.

(g) “The Procuring agency” means the organization purchasing the Goods, as named in SCC.

(h) “The Procuring agency’s country” is the country named in SCC.

(i) “The Supplier” means the individual or firm supplying the Goods and Services under this Contract.

(j) “The Project Site,” where applicable, means the place or places named in SCC.

(k) “Day” means calendar day.

**2. Application** 2.1 These General Conditions shall apply to the extent that they are



not superseded by provisions of other parts of the Contract.

**3. Country of Origin**

- 3.1 All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules and further elaborated in the SCC.
- 3.2 For purposes of this Clause, “origin” means the place where the Goods were mined, grown, or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of Goods and Services is distinct from the nationality of the Supplier.

**4. T**

- 4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods’ country of origin. Such standards shall be the latest issued by the concerned institution.

**5. Use of Contract Documents and Information; Inspection and Audit by the Government**

- 5.1 The Supplier shall not, without the Procuring agency’s prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The Supplier shall not, without the Procuring agency’s prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.
- 5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring agency and shall be returned (all copies) to the Procuring agency on completion of the Supplier’s performance under the Contract if so required by the Procuring agency.

5.4 The Supplier shall permit the Procuring agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the procuring agency, if so required.

## **6. Patent Rights**

6.1 The Supplier shall indemnify the Procuring agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring agency's country.

## **7. Performance Security**

7.1 Within twenty (20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.

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

7.3 The performance security shall be denominated in the currency of the Contract acceptable to the Procuring agency and shall be in one of the following forms:

(a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or

(b) a cashier's or certified check.

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

## **8. Inspections and Tests**

8.1 The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at

the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring agency.

8.3 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.

8.4 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring agency or its representative prior to the Goods' shipment from the country of origin.

8.5 Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

## **9. Packing**

9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring agency.

## **10. Delivery and Documents**

10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.

10.2 Documents to be submitted by the Supplier are specified in SCC.

**11. Insurance** 11.1 The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility.

**12. Transportation** 12.1 The Supplier is required under the Contract to transport the Goods to a specified place of destination within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.

**13. Incidental Services** 13.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

(a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;

(b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;

(c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;

(d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

(e) training of the Procuring agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged for other parties by the Supplier for similar services.

**14. Spare Parts** 14.1 As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

(a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and

(b) in the event of termination of production of the spare parts:

(i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and

(ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

## **15. Warranty**

15.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.

15.5 If the Supplier, having been notified, fails to remedy the defect(s)

within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.

## **16. Payment**

16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

16.2 The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.

16.4 The currency of payment is Pak. Rupees.

## **17. Prices**

17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring agency's request for bid validity extension, as the case may be.

## **18. Change Orders**

18.1 The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:

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

18.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be

made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring agency's change order.

**19.Contract Amendments**

19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**20. Assignment**

20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring agency's prior written consent.

**21. Subcontracts**

21.1 The Supplier shall notify the Procuring agency in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Subcontracts must comply with the provisions of GCC Clause 3.

**22.Delays in the Supplier's Performance**

22.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements.

22.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

**23.Liquidated**

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or

**Damages**

all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.

**24. Termination for Default**

24.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 22; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a 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 competition.

- 24.2 In the event the Procuring agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those



undelivered, and the Supplier shall be liable to the Procuring agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

## **25. Force Majeure**

25.1 Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

25.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **26. Termination for Insolvency**

26.1 The Procuring agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring agency.

## **27. Termination for Convenience**

27.1 The Procuring agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2 The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring agency at the

Contract terms and prices. For the remaining Goods, the Procuring agency may elect:

(a) to have any portion completed and delivered at the Contract terms and prices; and/or

(b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

## **28. Resolution of Disputes**

28.1 The Procuring agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

28.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

## **29. Governing Language**

29.1 The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

## **30. Applicable Law**

30.1 The Contract shall be interpreted in accordance with the laws of the Procuring agency's country, unless otherwise specified in SCC.

## **31. Notices**

31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.

31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

## **32. Taxes and Duties**

32.1 Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Procuring agency.

# **Sindh Public Procurement Regulatory Authority**

## **Bidding Documents**

**For**

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## **Procurement of Goods**

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### **PART TWO (PROCUREMENT SPECIFIC PROVISIONS)**

- Invitation for Bids (IFB)
- Bid Data Sheet (BDS)
- Special Conditions of Contract (SCC)
- Schedule of Requirements
- Technical Specifications
- Sample Form
- Eligibility

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**OFFICE OF THE PROJECT DIRECTOR**  
**PROJECT MANAGEMENT & IMPLEMENTATION UNIT (PMIU)**  
**SCHOOLS EDUCATION DEPARTMENT, GOVERNMENT OF SINDH.**  
D-61/I, Opposite Beacon House KG-2, School, Near Kausar Medico, Block-9, Clifton, Karachi  
Phone No: 021-35166041, Fax: 021-35166042

Dated: 12.05.2017

**INVITATION FOR BIDS**

1. Project Management & Implementation Unit, Schools Education Department, Government of Sindh, has received an allocation from the ADP funds in Pak rupees towards the cost of the Science Materials for Government English Medium Schools in Cambridge System in different districts of Sindh during the financial year 2016-17. It is intended that part of the proceeds of this allocated fund will be applied to eligible payments under the following contracts

Tender No.	Description	Tender Fee
18.	Procurement of Science Materials, including Science Equipments and Chemicals complete etc for Government English Medium Schools in Cambridge System in fifteen (15) Districts of Sindh	Rs.2500/-

2. The Project Director, Project Management & Implementation Unit, Schools Education Department now invites sealed bids from eligible bidders on single stage two envelope procedures for the above tenders.
3. Interested eligible bidders may obtain further information from the Office of the Project Director, Project Management & Implementation Unit, School Education Department, D-61/I, Opposite Beacon House KG-II School, Near Kausar Medico, Block-9, Clifton, Gizri Road Karachi.
4. A complete set of bidding document may be purchased w.e.f from **Monday 15<sup>th</sup> May, 2017** upto **10:00 am** on **Wednesday 31<sup>st</sup> May, 2017**, during office hours.
5. The interested bidders on submission of a written application to the undersigned and upon payment of **Rs.2500/-** non-refundable fee in shape Cash, Demand Draft, or Pay Order in favour of Project Director, Project Management & Implementation Unit, School Education Department, D-61/I, Opposite Beacon House KG-2 School, Near Kausar Medico, Block-9, Clifton, Gizri Road, Karachi.
6. Sealed Bids must be delivered to the above office on or before **Wednesday 31<sup>st</sup> May, 2017** upto **11:00 am** and must be accompanied by a bid security of **2 % ( Two Percent )** of bid amount.
7. The **Technical Proposals** of the tenders will be opened by the Procurement Committee of the

Department in presence of bidders' / representatives of bidders on same day i.e **Wednesday 31st May, 2017** at **11:30 am** sharp at the committee room of Project Management & Implementation Unit, Schools Education Department, D-61/1, Opposite Beacon House KG-2 School, Near Kausar Medico, Block-9, Clifton, Gizri Road, Karachi. The **Financial Proposals** of the qualified bidders will be opened after technical evaluation by the committee

8. The rates quoted should be inclusive of all Taxes such as GST, SBR, Income Tax, etc. GST will be deducted at source at prescribed rates. Delivery of items will be made institution wise at specified districts throughout the province of Sindh.
9. The bidders are advised to quote their best and final prices that would be not negotiable.
10. In case the Government declare / announce public holiday on the date of opening of Tender, the Tenders will be submitted / opened on the very next working day and time.
11. Procuring Agency may reject all or any bid as per relevant provisions of Sindh Public Procurement Rules 2010.
12. Invitation for Bids / Tender Notice can be downloaded from SPPRA website: [www.pprasindh.gov.pk](http://www.pprasindh.gov.pk).

**PROJECT DIRECTOR**  
Project Management & Implementation Unit  
Schools Education Department  
Government of Sindh, Karachi

## **EVALUATION CRITERIA**

### **Science Equipment**

**The Technical Bids Shall be Evaluated on the basis of following parameters:**

Sr#	Evaluation Parameters		Brief
	Company / Firm / Individual Information		
		MARKS	
1	Experience of the firm	5	1 marks for each year in business. Max. 5 marks (documentary proof-NTN/letter of incorporation/Company registration letter)
2	Annual Income Tax Returns of Last 5 Years	5	01 Marks of each year Tax Paid Returns (Max 5)
3	Audited Financial Statements of 5 years	5	01 Marks of each year Financial Statement Report (Max 5)
4	Last 10 Month Sales Tax Summaries	5	0.50 Marks of each Month Tax Paid Returns (Max 5)
6	Ware house / Storage Capacity	10	<ul style="list-style-type: none"><li>➤ 5 mark will be given if the bidder posses a warehouse having covered area 1000 Sft. or above</li><li>➤ 2.5 marks if the bidder possesses ware house having covered are less than 1000 Sft.</li><li>➤ No marks will be given if the bidder do not possess warehouse to store furniture items</li></ul>
7	Skilled Manpower	10	<ul style="list-style-type: none"><li>➤ 06 marks will be given if the acceptable detail of strength / skilled manpower with qualification possessed by the company has been provided.</li><li>➤ 04 marks for skilled manpower only with experience of 05 years or more.</li><li>➤ No marks will be given if acceptable details of skilled manpower is not provided</li></ul>
8	Completed Project of Similar Nature	35	<b><u>BREAK UP OF 20 MARKS</u></b> <ul style="list-style-type: none"><li>➤ 10% marks will be given if the bidder have similar nature of project worth of Rs. 1 - Million (Proof Required)</li><li>➤ 25% marks will be given if bidder have similar nature of project worth of Rs. 2 – 3 Million (Proof Required)</li><li>➤ 50% marks will be given if bidder have similar nature of project worth of Rs. 4 - 10 Million (Proof Required)</li><li>➤ 100% marks will be given if bidder have similar nature of project worth of Rs. 10 - 15 Million (Proof Required)</li></ul>
	TOTAL MARKS	75	

**NOTE: 1. Firm must get minimum 70% marks in Technical Evaluation to qualify as per above mentioned criteria.**

## Bid Data Sheet

<b>Introduction</b>	
<b>ITB 1.1</b>	Name of Procuring Agency: Project management & Implementation Unit Karachi School Education Department Government of Sindh.
<b>ITB 1.1</b>	Government English Medium Schools in Cambridge System in different districts of Sindh during the financial year 2016-17
<b>ITB 1.1</b>	<p>Name of Contract:</p> <p>Procurement of Science Materials for Government English Medium Schools in Cambridge System in different districts of Sindh during the financial year 2016-17 Project Management &amp; Implementation Unit, Schools Education Department</p>
<b>ITB 4.1</b>	Name of Procuring agency. Project Management & Implementation Unit, Schools Education Department Karachi Government of Sindh.
<b>ITB 6.1</b>	<p>Procuring agency's address, telephone, telex, and facsimile numbers:</p> <p>Office of the Project Director, Project Management &amp; Implementation Unit, School Education Department, D-61/1, Opposite Beacon House KG-II School, Near Kausar Medico, Block-9, Clifton, Gizri Road Karachi.</p>
<b>ITB 8.1</b>	Language of the bid. English
<b>Bid Price and Currency</b>	
<b>ITB 11.2</b>	<p>The price quoted shall be:</p> <p>In addition to delivered duty paid (DDP) price.</p>
<b>ITB 11.5</b>	The price shall be fixed.
<b>Preparation and Submission of Bids</b>	
<b>ITB 13.3 (d)</b>	<p>Qualification requirements.</p> <p>Requirement for a minimum level of experience in a similar type of goods for which the Invitation for Bids is issued. And also meet the requirement.</p>



<b>ITB 14.3 (b)</b>	Spare parts required for <i>[number]</i> of years of operation. N/A
<b>ITB 15.1</b>	Amount of bid security.  two (2) percent of the bid amount.
<b>ITB 16.1</b>	Bid validity period:  The validity should be ninety (90) days.
<b>ITB 17.1</b>	Number of copies. One Original & One Copies
<b>ITB 18.2 (a)</b>	Address for bid submission:  Office of the Project Director, Project Management & Implementation Unit, School Education Department, D-61/1, Opposite Beacon House KG-II School, Near Kausar Medico, Block-9, Clifton, Gizri Road Karachi
<b>ITB 18.2 (b)</b>	IFB title and number: IFB NO:
<b>ITB 19.1</b>	Deadline for bid submission <b><u>31-05-2017 at 11.00 Am</u></b>
<b>ITB 22.1</b>	Time, date, and place for bid opening.  on <b><u>31-05-2017 at 11.30 am</u></b> at the committee room of Project Management & Implementation Unit, Schools Education Department, D-61/1, Opposite Beacon House KG-2 School, Near Kausar Medico, Block-9, Clifton, Gizri Road, Karachi
<b>Bid Evaluation</b>	
<b>ITB 25.3</b>	Criteria for bid evaluation.  criteria listed in ITB Clause 25.3 (e.g., 25.3 (b) and (c)), and in the reference under ITB 25.4 below. Retain only the evaluation method to apply and the relevant parameters corresponding to the retained <i>criteria (e.g., 25.4 (b) (i) and (c) (ii))</i> .
<b>ITB 25.4 (a)</b>	One option only.
<b>ITB 25.4 (b)</b>	Delivery schedule.  Relevant parameters in accordance with option selected:  adjustment expressed as a percentage,

<b>Option (i)</b>	
<b>Option (ii)</b>	<p><b>or</b></p> <p>adjustment expressed in an amount in the currency of bid evaluation,</p>
<b>Option (iii)</b>	<p><b>or</b></p> <p>adjustment expressed as a percentage</p> <p><i>[A rate of one-half (0.5) percent per week is a reasonable figure. The percentage of liquidated damages specified in SCC should be higher.]</i></p>
<b>ITB 25.4 (c) (ii)</b>	<p>Deviation in payment schedule.</p> <p>Annual interest rate.</p>
<b>ITB 25.4 (d)</b>	<p>Cost of spare parts. N/A</p> <p><i>[Specify the applicable method—(i), (ii), or (iii)—and factors (e.g., number of years) and reference to the Appendix to the Technical Specifications, as required.]</i></p>
<b>ITB 25.4 (e)</b>	<p>Spare parts and after sales service facilities in the Procuring agency's country:</p> <p>After sales service facilities according to requirement required.</p>
<b>ITB 25.4 (f)</b>	<p>Operating and maintenance costs. N/A</p> <p>Factors for calculation of the life cycle cost:</p> <p>(i) number of years for life cycle <i>[it is recommended that the life cycle period should not exceed the usual period before a planned major overhaul of the goods];</i></p> <p>(ii) operating costs <i>[e.g., fuel and/or other input, unit cost, and annual and</i></p>

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	<i>total operational requirements</i> ];  (iii)maintenance costs [e.g., spare parts—without duplication of above <i>Clause 25.4(d) requirements—and/or other inputs</i> ]; and  (iv)rate, as a percentage, to be used to discount all annual future costs calculated under (ii) and (iii) above to present value.  <b>or</b>  Reference to the methodology specified in the Technical Specifications or elsewhere in the bidding documents. 0.05%
<b>ITB 25.4 (g)</b>	Performance and productivity of equipment: required
<b>ITB 25.4 (h)</b>	Details on the evaluation method or reference to the Technical Specifications: <b>According to criteria mentioned</b>
<b>ITB 25.4 Alternative</b>	Specify the evaluation factors.  <b>According to criteria mentioned</b>
<b>Contract Award</b>	
<b>ITB 29.1</b>	Percentage for quantity increase or decrease. <b>fifteen (15) percent</b>
<b>Performance Security</b>	10% of contract price.

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### **Section III. Special Conditions of Contract**

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## Part Two - Section III. Special Conditions of Contract

### Table of Clauses

1. DEFINITIONS (GCC CLAUSE 1).....	
2. COUNTRY OF ORIGIN (GCC CLAUSE 3).....	
3. PERFORMANCE SECURITY (GCC CLAUSE 7).....	
4. INSPECTIONS AND TESTS (GCC CLAUSE 8).....	
5. PACKING (GCC CLAUSE 9).....	
6. DELIVERY AND DOCUMENTS (GCC CLAUSE 10).....	
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8. INCIDENTAL SERVICES (GCC CLAUSE 13).....	
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14. RESOLUTION OF DISPUTES (GCC CLAUSE 28).....	
15. GOVERNING LANGUAGE (GCC CLAUSE 29).....	
17. NOTICES (GCC CLAUSE 31).....	

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## **Part Two - Section III. Special Conditions of Contract**

### **Special Conditions of Contract**

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

*[Instructions for completing the Special Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant SCC. Where sample provisions are furnished, they are only illustrative of the provisions that the Procuring agency should draft specifically for each procurement.]*

#### **1. Definitions (GCC Clause 1)**

GCC 1.1 (g)—The Procuring agency is: Project management and Implementation Unit school Education Department Karachi

GCC 1.1 (h)—The Procuring agency's country is: Islamic Republic of Pakistan

GCC 1.1 (i)—The Supplier is:

#### ***Sample Provision***

GCC 1.1 (j)—The Project Site is: Government English Medium Schools in Cambridge System in different districts of Sindh

#### **2. Country of Origin (GCC Clause 3)**

All countries and territories as indicated in Part Two Section VI of the bidding documents, "Eligibility for the Provisions of Goods, Works, and Services in Government-Financed Procurement".

#### **3. Performance Security (GCC Clause 7)**

GCC 7.1—The amount of performance security, as a percentage of the Contract Price, shall be:  
*[Five (5) to ten (10) percent of the Contract Price would be reasonable; it should not exceed ten (10) percent in any case.]*

*[The following provision should be used in the case of Goods having warranty obligations.]*

GCC 7.4—After delivery and acceptance of the Goods, the performance security shall be reduced to two (2) percent of the Contract Price to cover the Supplier's warranty obligations in accordance with Clause GCC 15.2.

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#### **4. Inspections and Tests (GCC Clause 8)**

GCC 8.6—Inspection and tests prior to shipment of Goods and at final acceptance are as follows:

#### **5. Packing (GCC Clause 9)**

##### *Sample provision*

GCC 9.3—The following SCC shall supplement GCC Clause 9.2:

#### **6. Delivery and Documents (GCC Clause 10)**

##### *Sample provision (DDP terms)*

GCC 10.3—Upon shipment, the Supplier shall notify the Procuring agency the full details of the shipment, including Contract number, description of Goods, quantity and usual transport document. The Supplier shall mail the following documents to the Procuring agency:

- (i) copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;
- (iii) copies of the packing list identifying contents of each package;
- (iv) insurance certificate;
- (v) Manufacturer's or Supplier's warranty certificate;
- (vi) inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and
- (vii) certificate of origin.

#### **7. Insurance (GCC Clause 11)**

GCC 11.1— The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility. Since the Insurance is seller's responsibility they may arrange appropriate coverage.

#### **8. Incidental Services (GCC Clause 13)**

GCC 13.1—Incidental services to be provided are:

*[Selected services covered under GCC Clause 13 and/or other should be specified with the desired features. The price quoted in the bid price or agreed with the selected Supplier shall be included in the Contract Price.]*

## **9. Spare Parts (GCC Clause 14)**

GCC 14.1—Additional spare parts requirements are:

### ***Sample provision***

GCC 14.1—Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other spare parts and components shall be supplied as promptly as possible, but in any case within six (6) months of placing the order and opening the letter of credit.

## **10. Warranty (GCC Clause 15)**

### ***Sample provision***

GCC 15.2—In partial modification of the provisions, the warranty period shall be \_\_\_\_\_ hours of operation or \_\_\_\_\_ months from date of acceptance of the Goods or (\_\_\_\_\_) months from the date of shipment, whichever occurs earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:

(a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4,

**or**

(b) pay liquidated damages to the Procuring agency with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be (\_\_\_\_\_).

*[The rate should be higher than the adjustment rate used in the bid evaluation under ITB 25.4 (f) or (g).]*

GCC 15.4 & 15.5—The period for correction of defects in the warranty period is:



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## 11. Payment (GCC Clause 16)

### *Sample provision*

GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

#### **Payment for Goods supplied:**

Payment shall be made in Pak. Rupees in the following manner:

- (i) 100% of the Contract Price on complete delivery of store within thirty (30) days on submission of claim supported by acceptance certificate from procuring agency declaring Goods have been delivered and that all contracted services have been performed.

## 12. Prices (GCC Clause 17)

### *Sample provision*

GCC 17.1—Prices shall be adjusted in accordance with provisions in the Attachment to SCC.

*[To be inserted **only** if price is subject to adjustment.]*

### **13. Liquidated Damages (GCC Clause 23)**

GCC 23.1—Applicable rate:

Maximum deduction:

**(0.5) percent per week, percent of the Contract Price.**

### **14. Resolution of Disputes (GCC Clause 28)**

GCC 28.3—The dispute resolution mechanism to be applied pursuant to GCC Clause 28.2 shall be as follows:

In the case of a dispute between the Procuring agency and the Supplier, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Procuring agency's country.

### **15. Governing Language (GCC Clause 29)**

GCC 29.1—The Governing Language shall be:

### **16. Applicable Law (GCC Clause 30)**

GCC 30.1-The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan which includes the following legislation:

**The Employment of Children (ECA) Act 1991 The Bonded  
Labour System (Abolition) Act of 1992 The Factories Act  
1934**

### **17. Notices (GCC Clause 31)**

GCC 31.1 —Procuring agency's address for notice purposes:

—Supplier's address for notice purposes:

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## **Section IV. Schedule of Requirements**

## Schedule of Requirements

S.NO.	Each School in Each District
1	Shaheed Benazir Abad
2	Sukkur
3	Larkana
4	Thatta
5	Badin
6	Sujawal
7	Jamshoro
8	Nausheroferozee
9	Sanghar
10	Khairpur Mirus
11	Ghotki@Mirpurmathelo
12	Matiari
13	Mirpurkhas
14	Tando Muhammad Khan
15	Tando Allahyar

## SCIENCE EQUIPMENTS

S.NO.	ITEMS NAME /	QUANTITY IN EACH SCHOOL	REMARKS
1.	Am-Meter Bench Type ED 205 triple range China / Equivalent	35	
2.	Volt Meter Bench Type ED 205 triple range / Equivalent	35	
3.	Am Meter Small China	15	
4.	Volt Meter Small China	12	
5.	Beaker 1000ml China / Equivalent	50	
6.	Beaker 100ml China / Equivalent	50	
7.	Beaker 250ml China / Equivalent	40	
8.	Beaker 200ml China / Equivalent	8	
9.	Beaker 300ml China / Equivalent	6	

10.	Beehive Shelf	35	
11.	Bench wooden Small	35	
12.	Bunsen Burner Best Heavy	35	
13.	Burette 50ml China / Equivalent	50	
14.	Burette Clamp	10	
15.	Spectro Meter	3	
16.	Capillary Tube	50	
17.	Different Charts for Class Room	180	
18.	China / Equivalent Dish 60cc	50	
19.	Compass Small 3/4"	35	
20.	Concave Mirror	35	
21.	Conical Flask 250ml China / Equivalent	50	
22.	Conical Flask 500ml China / Equivalent	50	
23.	Convex Lens	35	
24.	Drawing Board Best Pulley	35	
25.	Stop Watch Digital	35	
26.	Test Tube 3" China / Equivalent	100	
27.	Test Tube 6" China / Equivalent	100	
28.	Test Tube Brush	50	
29.	Test Tube Holders	50	
30.	Test Tube Stand Fine Quality	50	
31.	Thermometer 360c	50	
32.	Thermometer 110C	50	
33.	Thistle Funnel	35	
34.	Tripod Stand	50	
35.	Cylinder 1000ml China / Equivalent	35	
36.	Cylinder 100ml China / Equivalent	35	
37.	Cylinder 250ml China / Equivalent	35	
38.	Cylinder 500ml China / Equivalent	35	
39.	Flat Bottom Flask 250ml	35	

40.	Funnel 3"	35	
41.	Fusion Tube Germany	35	
42.	Galvanometer ED 205 China / Equivalent	35	
43.	Gas Jar	35	
44.	Gas Jar Cover w/Hole or W/o Hole	35	
45.	Glass Prism 1 -1/2"	35	
46.	Glass Slab	35	
47.	Hooks Law Apparatus With Slotted Weight	35	
48.	Iron Bob Different Sizes (Set of 3)	35	
49.	Iron Stand Big Size	35	
50.	Iron Stand Medium Size	35	
51.	Litmus Paper R/B	35	
52.	Magnifying Glass 75mm	35	
53.	Meter Rod Full	35	
54.	Meter Rod Half	35	
55.	Microscope Student China / Equivalent	27	
56.	Milli / Micro Am Meter ED 205China / Equivalent	35	
57.	Pipette Germany Bulb Type 10ml	35	
58.	Pipette Germany Bulb Type 25ml	35	
59.	Round Bottom Flask 250ml China / Equivalent	35	
60.	Round Bottom Flask 500ml China / Equivalent	35	
61.	Triangular File China / Equivalent	35	
62.	Trough 8"	35	
63.	Uprights Stand	35	
64.	Vernier Calliper-0-150mm China / Equivalent	35	
65.	Optical Bench Metal Best	35	

66.	Pendulum Bob (Set of 3)	35	
67.	Photo Cell Apparatus	35	
68.	Physical Balance China / Equivalent	35	
69.	Pinch Cock	35	
70.	Plane Mirror with Stand Wooden	35	
71.	Platinum Wire	35	
72.	Plumb Line Brass	35	
73.	Power Supply	35	
74.	S. Pulley Brass Simple	35	
75.	S.G Bottle 25ml Best	35	
76.	Sand Bath Copper	35	
77.	Sand Paper	35	
78.	Screw Gauge 25mm China / Equivalent	35	
79.	Slide Glass Plain China / Equivalent	35	
80.	Water Bath Copper	18	
81.	Reagent Bottle 60ML	12	
82.	Screen For Projector 60 x 60 inch with adjustable Tripod	2	
83.	Weight Box China / Equivalent	35	
84.	Weight Hanger-100g	35	
85.	Wire Connecting w/Clips	35	
86.	Wire Gauze	35	
87.	Wolf Bottle	35	
88.	Water Distillation Plant 10 Liters	3	
89.	2Cell Holder	10	
90.	Connecting Lead & Crocodile clips	10	
91.	Aqueous ammonia	500ml	
92.	Aqueous barium Nitrate	500gram	

93.	Aqueous potassium dichromate	500 gram	
94.	Aqueous potassium iodide	500 gram	
95.	Aqueous potassium manganate	250 gram	
96.	Aqueous silver nitrate	25 gram	
97.	Aqueous Silver hydroxide	500 gram	
98.	Hydrochloric acid	500 ml	
99.	Limewater	500 ml	
100.	Nitric acid	500 ml	
101.	Sulfuric acid	500 ml	
102.	Iodine	100 gram	
103.	Aluminium foil	1 pkt	



## **Section V. Technical Specifications**

## Technical Specifications

S.NO.	SPECIFICATION	REMARKS
1	Am-Meter Bench Type ED 205 triple range China / Equivalent	
2	Volt Meter Bench Type ED 205 triple range / Equivalent	
3	Am Meter Small China	
4	Volt Meter Small China	
5	Beaker 1000ml China / Equivalent	
6	Beaker 100ml China / Equivalent	
7	Beaker 250ml China / Equivalent	
8	Beaker 200ml China / Equivalent	
9	Beaker 300ml China / Equivalent	
10	Beehive Shelf	
11	Bench wooden Small	
12	Bunsen Burner Best Heavy	
13	Burette 50ml China / Equivalent	
14	Burette Clamp	
15	Spectro Meter	
16	Capillary Tube	
17	Different Charts for Class Room	
18	China / Equivalent Dish 60cc	
19	Compass Small 3/4"	
20	Concave Mirror	
21	Conical Flask 250ml China / Equivalent	
22	Conical Flask 500ml China / Equivalent	
23	Convex Lens	
24	Drawing Board Best Pulley	
25	Stop Watch Digital	
26	Test Tube 3" China / Equivalent	
27	Test Tube 6" China / Equivalent	
28	Test Tube Brush	
29	Test Tube Holders	
30	Test Tube Stand Fine Quality	
31	Thermometer 360c	
32	Thermometer 110C	
33	Thistle Funnel	
34	Tripod Stand	

35	Cylinder 1000ml China / Equivalent	
36	Cylinder 100ml China / Equivalent	
37	Cylinder 250ml China / Equivalent	
38	Cylinder 500ml China / Equivalent	
39	Flat Bottom Flask 250ml	
40	Funnel 3"	
41	Fusion Tube Germany	
42	Galvanometer ED 205 China / Equivalent	
43	Gas Jar	
44	Gas Jar Cover w/Hole or W/o Hole	
45	Glass Prism 1 -1/2"	
46	Glass Slab	
47	Hooks Law Apparatus With Slotted Weight	
48	Iron Bob Different Sizes (Set of 3)	
49	Iron Stand Big Size	
50	Iron Stand Medium Size	
51	Litmus Paper R/B	
52	Magnifying Glass 75mm	
53	Meter Rod Full	
54	Meter Rod Half	
55	Microscope Student China / Equivalent	
56	Milli / Micro Am Meter ED 205China / Equivalent	
57	Pipette Germany Bulb Type 10ml	
58	Pipette Germany Bulb Type 25ml	
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60	Round Bottom Flask 500ml China / Equivalent	
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67	Photo Cell Apparatus	
68	Physical Balance China / Equivalent	
69	Pinch Cock	
70	Plane Mirror with Stand Wooden	
71	Platinum Wire	
72	Plumb Line Brass	
73	Power Supply	

74	S. Pulley Brass Simple	
75	S.G Bottle 25ml Best	
76	Sand Bath Copper	
77	Sand Paper	
78	Screw Gauge 25mm China / Equivalent	
79	Slide Glass Plain China / Equivalent	
80	Water Bath Copper	
81	Reagent Bottle 60ML	
82	Screen For Projector 60 x 60 inch with adjustable Tripod	
83	Weight Box China / Equivalent	
84	Weight Hanger-100g	
85	Wire Connecting w/Clips	
86	Wire Gauze	
87	Wolf Bottle	
88	Water Distillation Plant 10 Liters	
89	2Cell Holder	
90	Connecting Lead & Crocodile clips	
91	Aqueous ammonia	
92	Aqueous barium Nitrate	
93	Aqueous potassium dichromate	
94	Aqueous potassium iodide	
95	Aqueous potassium manganate	
96	Aqueous silver nitrate	
97	Aqueous Silver hydroxide	
98	Hydrochloric acid	
99	Limewater	
100	Nitric acid	
101	Sulfuric acid	
102	Iodine	
103	Aluminium foil	