PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES
MINISTRY OF WATER RESOURCES
GOVERNMENT OF PAKISTAN

TENDER DOCUMENT

FOR

PROCUREMENT AND INSTALLTION OF SOLAR SYSTEM AND LABORATORY/ FIELD TESTING EQUIPMENT UNDER THE UNICEF SUPPORTED PROJECT IN KARACHI, SINDH

Address:
Pakistan Council of Research in Water Resources,
Main University Road, Karachi.
Website: www.pcrwr.gov.pk
Email: pcrwr.karachi@gmail.com
Telephone: 021-34028062, 99333717-8

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INVITATION
FOR
BIDS

INVITATION FOR BIDS
(E-Bidding through EPADS)
National Competitive Bidding (Single Stage Two Envelope)

Pakistan Council of Research in Water Resources (PCRWR) working under Ministry of Water Resources (MoWR), Government of Pakistan invites sealed bids from the firms/companies/ sole distributors/ suppliers registered with Federal Board of Revenue (FBR) (as per GST & Income Tax laws) and registered in GST for particulars given below through EPADS:

Sr.#	Description of Procurement	Total Budgeted Cost (Million PKR)
1.	**LOT 1**: **Supply and Installation of 12.9 KW Solar System:** Strengthening of the alternative energy system through the supply and installation of a complete 12.9 kW hybrid solar power system at PCRWR Regional Office, Karachi, comprising high-efficiency bifacial solar panels, hybrid inverter, lithium battery storage, mounting structure, DC/AC breakers, distribution boxes, PV disconnects, electrical cabling, protection devices and all necessary accessories, including associated civil works, installation, testing and commissioning to ensure a fully operational system in accordance with the BOQ specifications.	4.5
2.	**LOT 2: Procurement of Laboratory Field Testing Equipment/ Instrument:** Portable Handheld Instrument for Total Suspended Solids (TSS) and Turbidity Measurement	2.0

1. Regional Director, PCRWR Regional Office Karachi, invites E-bids through E-Procurement (EPADS) under PPRA Rules, for the above-mentioned scope of work from eligible bidders.
2. Bidding shall be conducted through E-Procurement (Open Competitive Bidding Single Stage Two Envelop) procedure and is open to all eligible bidders as defined in the bidding document.
3. Interested and registered eligible bidders on E-PADS may obtain bidding documents from EPADS, PPRA and PCRWR Website respectively.
4. Interested and registered eligible bidder can participate through E-Procurement (EPADS) (https://eprocure.gov.pk/#/auth/login).
5. Bid documents should be uploaded through EPADS (scanned copy) and hard copy must be submitted physically at PCRWR Regional Office Karachi.
6. E-bids must be submitted through E-Procurement (EPADS) on or before **30th November 2026 till 11:00 am.** Proposals must be accompanied by a Fixed Bid Security of **5%** of the estimated budget cost against bidding /Lot in the form of Demand Draft, Pay Order or Call Deposit duly issued from a Scheduled Bank of Pakistan.

7. The bidder shall furnish a Bid Security equivalent to 5% of the estimated/budgeted cost of the Lot(s) applied for. The Bid Security Shall be submitted separately for each applied Lot(s). Bids submitted without the required Bid Security or with an insufficient amount shall be considered **non-responsive**. The required Bid Security amounts are as follows:

    - Lot No. 1: Rs. 225,000/-
    - Lot No. 2: Rs. 100,000/-

8. E-bids will be opened on **30th November 2026 at 11:30 am** in the presence of bidders or their representatives at PCRWR Regional Office Karachi. If bid closing/opening date falls on local/national holiday, the date of bid closing/opening shall be the next working day on the same time and venue.
9. **Pre-Bid Site Visit:** Bidders are encouraged to visit the project site at PCRWR Regional Office, Karachi, prior to submission of their tenders to assess the site conditions, available space, existing electrical infrastructure, installation requirements and other relevant factors. The site visit may be arranged during office hours with prior coordination with the office concerned. Any costs associated with the site visit shall be borne by the bidder. The bidder shall be deemed to have satisfied themselves regarding all site conditions before submitting their financial and technical proposals.
10. All bidders must submit their bids through EPSADS within the prescribed deadline. Bidders are also requested to remain physically present on the day of bid opening to participate in the bid opening proceedings.
11. Bidders are required to submit two separate sealed envelopes containing (i) Technical Proposal and (ii) Financial Proposal, along with the Bid Security in the form of Demand Draft/Pay Order submitted separately in another sealed envelope, clearly marked accordingly, before the bid opening time at the address specified in the bidding documents.
12. Bidders must clearly mention the make, model, and country of origin of the material for which they are quoting prices in their Technical Proposal for the purpose of technical evaluation.
13. Bids not complying with the requirements shall be rejected being nonresponsive. Alternate proposals and / or conditional bids shall be considered non-responsive.
14. Bids which are incomplete, not E-bids through EPADS, not signed and / or not stamped, late or submitted by other than specified mode will be rejected.
15. The contract shall be awarded to the bidder who meets all technical and financial evaluation criteria.

Dr. Ghulam Murtaza
Regional Director/Project Director
021-34028062
pcrwr.karachi@gmail.com

INSTRUCTIONS
TO
BIDDERS

INSTRUCTIONS TO BIDDERS

(Note: These Instructions along with Bidding Data will not be part of Contract and will cease to have effect once the Contract is signed).

A. GENERAL

IB.1 Scope of Tender

1.1 Scope of Tender

The Regional Director / Project Director, PCRWR (hereinafter referred to as **"the Employer"**), as defined in the Tendering Data, invites sealed bids for the PROCUREMENT AND INSTALLTION OF SOLAR SYSTEM AND LABORATORY/ FIELD TESTING EQUIPMENT UNDER THE UNICEF SUPPORTED PROJECT IN KARACHI, SINDH " as outlined in the Tendering Data. The firms or individuals submitting bids shall hereinafter be referred to as **"the Tenderers."**

Tenderers should quote for the work specified with its unit rate and its total rate with all Applicable Taxes.

The bids must be quoted in Pak Rupees and submitted to the undersigned by **30th November 2026 at 11:00 Hrs**.

The tenders will be opened on the same date at 1130 hrs.

IB.2 Source of Funds

2.1 The PCRWR have arranged funds from UNICEF funded project "STRENGTHENING PCRWR'S WATER QUALITY MONITORING AND LABORATORY CAPACITY TO SUPPORT UNICEF'S CHILD-FRIENDLY COMMUNITIES (CFC) AND WASH INTERVENTIONS IN SINDH"

IB.3 Eligible Tenderers

3.1 Tendering is open to all eligible firms/companies/sole distributors/ suppliers which have active registration with the Federal Board of Revenue (FBR). Eligible bidders must demonstrate adequate financial and technical capacity, along with relevant experience, to undertake the Procurement of Laboratory Equipment /Instruments. Preference will be given to firms with demonstrated experience in supplying equipment/instruments to water testing laboratories, and/or those acting as sole distributors of the manufacturers.

IB.4 One Bid per Bidder

4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

IB.5 Cost of Bidding/Tendering

5.1 The tenderer shall bear all costs associated with the preparation and submission of its tender and PCRWR will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process

B. TENDER DOCUMENTS

IB.7 Contents of Tender Documents

7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.

1. Instructions to Tenderers &Tendering Data
2. Forms of Tender
3. Standard Forms:
   (i) Form of Performance Security
   (ii) Form of Contract Agreement
4. Integrity Pact
5. Specification

7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IT.8 Clarification of Tender Documents

8.1 A prospective tenderer requiring any clarification(s) in respect of the Tender Documents may notify the Regional Director, PCRWR against subject tender "PROCUREMENT AND INSTALLTION OF SOLAR SYSTEM AND LABORATORY/ FIELD TESTING EQUIPMENT UNDER THE UNICEF SUPPORTED PROJECT IN KARACHI, SINDH" at the address indicated in the Tendering Data.

8.2 The Regional Director, PCRWR will respond to any request for clarification which it receives earlier than 10days prior to the deadline for the submission of tenders. Copies of the response will be forwarded to all prospective tenderers, at least 5 days prior to dead line for submission of Tenders, who have received the Tender Documents including a description of the enquiry but without identifying its source.

IB.9 Amendment of Tender Documents

9.1 At any time prior to the deadline for submission of tenders, the Regional / Project Director, PCRWR, Karachi may for any reason, whether at his own initiative or in response to a clarification requested by a respective tenderer, modify the Tender Documents by issuing addendum.

9.2 Any addendum thus issued shall be part of the Tender Documents pursuant to Sub-Clause 7.1 hereof, and shall be communicated in writing to all purchasers of the Tender Documents. Prospective tenderers shall acknowledge receipt of each addendum in writing to the Regional /Project Director, PCRWR, Karachi

9.3 To afford prospective tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Regional Director /Project Director, PCRWR may extend the deadline for submission of tenders. Clause IB.20

C. PREPARATION OF TENDERS

IB.10 Language of Tender

10.1 The tender prepared by the tender and all correspondence and documents relating to the Tender, exchanged by the tenderer and the Regional Director /Project Director, PCRWR, shall be written in the English language, provided that any printed literature furnished by the tenderer may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Tender, the English translation shall govern.

IB.11 Documents Comprising the Tender

11.1 The tender prepared by the tenderer shall comprise the following components:

(a) Covering Letter
(b) Form of Tender duly filled, signed and sealed, in accordance with Clause IB.18.3.
(c) Tender Security furnished in accordance with Clause IB.15.
(d) Power of Attorney in accordance with Clause IB 18.5.
(e) Documentary evidence in accordance with Clause IB.11
(f) Documentary evidence in accordance with Clause IB.I2.

11.2 Pursuant to Clause IB.11, the tenderer shall furnish, as part of its tender, documents establishing the tender's eligibility to tender and its qualifications to perform the Contract if its tender is accepted.

11.3 Tenderer must possess and provide evidence of the experience as stipulated in Tendering Data.

11.4 The documentary evidence of the Works' conformity to the Tender Documents may be in the form of literature, drawings and data and shall furnish documentation as set out in Tendering Data.

IB.12 Tender Prices

12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.

12.2 The bidders shall fill in rates and prices for all items of the supplies described in the tender document.

12.3 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the tenderer shall remain fixed during the tenderer's performance of the Contract and not subject to variation on any account.

12.4 The tenderer shall note that standards for material and equipment, and references to brand names or catalogue numbers, designated by the Employer in the Technical Provisions are intended to be descriptive only and not restrictive.

IB.13 Currencies of Bid and Payment

13.1 The unit rates and prices in the Schedule of Prices shall be quoted by the tenderer in the currency as stipulated in Tendering Data.

13.2 **The tenderer will provide the total cost indicating all applicable taxes.**

IB.14 Tender Validity

14.1 Tenders shall remain valid for the period of **135 days** as stipulated in the Tendering Data after the date of tender opening.

IB.15 Tender Security

15.1 Each tenderer shall furnish, as part of his tender, a Tender Security for Lot No. 1: Rs. 225,000/- and Lot No. 2: Rs. 100,000/- in Pak. Rupees in the form of a Bank Guarantee issued by a Scheduled Bank in Pakistan in favour of the Employer valid for a period **28 days** beyond the tender validity date.

15.2 Any tender not accompanied by an acceptable Tender Security shall be rejected by the Employer as non-responsive.

15.3 The tender securities of unsuccessful tenderers will be returned upon award of contract to the successful tenderer or on the expiry of validity of Tender Security whichever is earlier.

15.4 The Tender Security of the successful tenderer will be returned when the tenderer has furnished the required Performance Security, pursuant to Clause IB.32 and signed the Contract Agreement, pursuant to Clause IB.33.1.

15.5 The Tender Security may be forfeited:

(a) if a tenderer withdraws his tender during the period of tender validity;
(b) if a tenderer does not accept the correction of his Tender Price, pursuant to Clause IB 27.1 hereof; or
(c) in the case of a successful tenderer, if he fail to:
    (i) Furnish the required Performance Security in accordance with Clause IB.32, or
    (ii) Sign the Contract Agreement, in accordance with Clause IB.33.1

IB.18 Format and Signing of Bid

18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.

18.2 All appendices to Bid are to be properly completed and signed.

18.3 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.

18.4 Each bidder shall prepare one (1) original and the number of copies specified in the Bidding Data of the complete set of bid documents, as described in Clause IB.7, without any alterations. Each set shall be clearly marked as '**ORIGINAL**' or '**COPY**' as appropriate. In the event of any discrepancy between the original and the copies, the original shall prevail. The **'Technical Bid**' and the **'Financial Bid**' must be submitted separately."

18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder pursuant to Sub- Clause 11.1(a) hereof. **All pages of the bid shall be initialed and stamped by the person or persons signing the bid.**

18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Regional Director/Project Director, PCRWR or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

18.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D-SUBMISSION OF TENDER

IB.19 Sealing and Marking of Bids

19.1 Each bidder shall submit his bid as through EPADS as under:

(a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.

(b) The envelopes containing the 'ORIGINAL' and 'COPIES' will be put in one sealed envelope and addressed / identified as given in Sub- Clause 19.2 hereof for both 'TECHNICAL' as well 'FINANCIAL' Bid.

19.2 The inner and outer envelopes shall:

(a) Be addressed to the Employer at the address provided in the Bidding Data

(b) Bear the name and identification number of the contract as defined in the Bidding Data; and

(c) Provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data.

19.3 In addition to the identification required in Sub- Clause 19.2 hereof, the inner envelope 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 IB.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.

IB.20 Deadline for Submission of Bids

20.1 Bids must be received by the Employer no later than the time and date stipulated in the Bidding Data.

20.2 The Employer may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.21 Late Bids

21.1 (a) Any bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.20 will be returned unopened to such bidder or will be rejected.

IB.22 Modification, Substitution and Withdrawal of Bids

22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.

22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.

22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with Sub-Clauses 22.1 and 27.2.

22.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

E. TENDER OPENING AND EVALUATION

IB.23 Tender Opening

23.1 The Regional Director/Project Director, PCRWR will open the tenders, in the presence of tenderers' representatives who choose to attend, at the time, date and location stipulated in the Tendering Data.

23.2 (a) The tenderer's name, Tender Prices, any discount, the presence or absence of Tender Security, and such other details as the Employer at its discretion may consider appropriate, will be announced by the Regional Director /Project Director, PCRWR at the time of tender opening.

(b) Any Tender Price or discount which is not read out and recorded at tender opening will not be taken into account in the evaluation of tender.

IB.24 Process to be Confidential

24.1 Subject to Clause IB 25.1 heretofore, no tenderer shall contact the PCRWR on any matter relating to its Tender from the time of the Tender opening to the time the Contract is awarded.

24.2 Any effort by a tenderer to influence Regional Director/Project Director PCRWR in the Tender evaluation, Tender comparison or Contract Award decisions may result in the rejection of his Tender.

IB.25 Clarification of Bids

25.1 To assist in the examination, evaluation and comparison of Tenders the

Regional Director/Project Director, PCRWR may its discretions ask the tenderer for a clarification of its Tender. The request for clarification and the response shall be in writing and no change in the price or substance of the Tender shall be sought, offered or permitted.

IB.26 Examination of Bids and Determination of Responsiveness

26.1 (a) Prior to the detailed evaluation, the Regional Director/Project Director, PCRWR will determine the substantial responsiveness of each tender to the Tender Documents. For purpose of these Clauses, a substantially responsive tender is one which conforms to all the terms and conditions of the Tender Documents without material deviations. It will include determining the requirements listed in Tendering data.

IB.27 Correction of Errors

27.1 Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and 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 there is a discrepancy between the words and figures the amount in words shall prevail. If there is a discrepancy between the Total Tender price entered in Form of Tender and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Tender will be corrected by the PCRWR in accordance with the Corrected Schedule of Prices.

If the tenderer does not accept the corrected amount of Tender, his Tender will be rejected and his Tender Security forfeited.

27.2. A Tender determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the tenderer by correction of the non-conformity.

27.3 Any minor informality or non-conformity or irregularity in a Tender which does not constitute a material deviation may be waived by the Regional Director /Project Director, PCRWR provided such waiver does not prejudice or affect the relative ranking of any other tenderers.

IB.28 Evaluation and Comparison of Bids

28.1 The Tender Evaluation Committee PCRWR will evaluate and compare only the tenders previously determined to be substantially responsive pursuant to Sub-clauses IB 26.1 and 27.2 to 27.3 as per requirements given hereunder. Tenders will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Tender Price pursuant to Sub-Clause 28.2 herein below.

(a) Technical Evaluation

It will be examined in detail whether the items offered by the tenderer complies with the Technical Provisions of the Tender Documents. For this purpose, the tenderer's data submitted will be compared with technical features/criteria of the

Tendering Data detailed in the Technical Provisions. Other technical information submitted with the tender regarding the Tendering Data will also be reviewed.

(b) Commercial Evaluation

It will be examined in detail whether the tenders comply with the commercial/contractual conditions of the Tender Documents. It is expected that no major deviation/stipulation shall be taken by the tenderers.

28.2 Evaluated Tender Price

In evaluating the tenders, the Regional Director/ Project Director, PCRWR will determine for each tender in addition to the Tender Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Tender Price:

(i) Making any correction for errors pursuant to Sub-Clause 26.1 & 27.1 hereof.

(ii) making an appropriate price adjustment for any other acceptable variation or deviation.

(iii) Making an appropriate price adjustment for Deviations in terms of Payments (if any and acceptable to Tender Evaluation Committee PCRWR).

28.3 Evaluation Methods

Pursuant to Sub-Clause 28.2, Para (ii), and (iii) following evaluation methods will be followed:

a) Technical soundness: 60% weightage
Soundness of firm / experience: 40 marks
Quoted specifications matching with the tender specifications: 60 marks

b) Financial soundness: 40% weightage
Lowest bidder: 100 marks
Second lowest bidder: 90 marks
Third lowest bidder: 80 marks
Other lowest bidders will be ranked with 10 less marks in descending order.

The tenderer/ bidder will provide past performance /Experience of the **last 05 years** along with supporting documents (supply orders and performance/completion certificates).

(i) Price Adjustment for Technical Compliance

The cost of making good any deficiency resulting from technical noncompliance will be added to the Corrected Total Tender Price for comparison purposes only. The adjustments will be applied taking the highest price quoted by other tenderers being evaluated in detail in their original Tenders for corresponding item. In case of non-availability of price from other

tenderers, the price will be estimated by Project Director.

(ii) Price Adjustment for Commercial Compliance

The cost of making good any deficiency resulting from any quantifiable variations and deviations from the Tender Schedules and Conditions of Contract, as determined by Project Director will be added to the Corrected Total Tender Price for comparison purpose only. Adjustment for commercial compliance will be added to the Corrected Total Tender Prices.

(iii) Price Adjustment for Deviation in Terms: If Payments Refer to Tendering Data

(iv) **Guarantee/Warranty**

The warrantee period is **three months** which should be provided on proper legally recognized documents. In case of failure, the same will be arranged from the performance security amount. It will be the responsibility of supplier to arrange any spare part, or repair in case of damage in guarantee/warranty period.

The representative of PCRWR may examine any item, equipment, material, supplies and/or services to be provided under this contract, at any time prior to expiry of this contract. He may reject or require alteration thereto or replacements thereof as a condition of acceptance and its findings shall be conclusive except in regard to defects or fraud which may appear later.

F. AWARD OF CONTRACT

IB.29 Award Criteria

29.1 Subject to Sub-clause IB 30 and IB.34, the Regional Director/Project Director, PCRWR will award the Contract to the tenderer whose tender has been determined to be substantially responsive to the Tender Documents fulfilling all technical specification and who has offered the lowest evaluated Tender Price, provided that such tenderer has been determined to be qualified to satisfactory perform the Contract in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 29.2.

29.2 In the absence of pre-qualification, the Regional Director/Project Director, PCRWR will determine to its satisfaction whether the substantially responsive, fulfilling technical requirements and is the lowest evaluated tenderer is qualified to satisfactorily perform the Contract.

29.3 The determination will take into account the tenderer's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the tenderer's qualifications submitted under Clause IB.11, as well as such other information as the Regional Director/ Project Director PCRWR deems necessary and appropriate

IB.30 Employer's Right to accept any Bid and to reject any or all Bids

30.1 Not-withstanding Sub-clause IB.29 the Regional Director/ Project Director PCRWR reserves the right to accept or reject any tender, and to annual the tendering process and reject all tenders, at any time prior to award of Contract, without thereby incurring any liability to the affected tenderers or any obligation to inform the affected tenderers of the grounds for the PCRWR action.

IB.31 Notification of Award

31.1 Prior to expiration of the period of tender validity prescribed by the PCRWR, the PCRWR will notify the successful tenderer in writing ("Letter of Acceptance") that *his/her* tender has been accepted.

IB.32 Performance Security

32.1 The successful tenderer shall furnish to the PCRWR a Performance Security in the form and the amount stipulated in the Conditions of Contract within a period of 14 days after the receipt of Acceptance.

32.2 Failure of the successful tenderer to comply with the requirements of Sub-clauses IB 32.1 & IB 33 or clause IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security.

IB.33 Signing of Contract Agreement

33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the PCRWR will send the successful tenderer the Form of Contract Agreement provided in the Tender Documents, incorporating all agreements between the parties.

IB.34 General Performance of the Bidders

The Employer reserves the right to obtain information regarding the performance of bidders on previously awarded contracts/works. In cases of consistently poor performance, as reported by the respective employers of those contracts, the Employer may, inter alia, reject the bid of such a bidder.

IB.35 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of
the Bid or the Contract Documents.

TENDERING
DATA

Tendering Data

SCOPE OF WORK:

LOT-1: Supply, Installation, Testing and Commissioning of 12.9 kW Hybrid Solar System

1. Supply of high-efficiency N-Type monocrystalline bifacial solar PV modules.
2. Supply of 12 kW three-phase hybrid solar inverter with dual MPPT technology.
3. Supply of lithium iron phosphate ($LiFePO_4$) battery storage system, complete with battery management system (BMS).
4. Supply of complete elevated mild steel (MS) mounting structure, including girders, columns, base plates and protective coating.
5. Supply of all necessary DC/AC cables, breakers, distribution boxes, PV disconnects, connectors, protection devices and allied electrical accessories.
6. Execution of associated civil works, foundations, mounting and fixing arrangements.
7. Complete installation, electrical connections, testing and commissioning of the solar system to ensure fully functional operation in accordance with the BOQ specifications.

LOT-2: Procurement and Supply of Field Equipment

1. Procurement and supply of portable handheld field instruments for measurement of Total Suspended Solids (TSS) and turbidity, as specified in the BOQ.
2. Supply of all necessary accessories, probes, sensors, cables, carrying cases and other standard components required for instrument operation, wherever applicable.
3. Provision of manufacturer's technical literature, user manuals, warranty documents and calibration certificates, wherever applicable.
4. Delivery of the instruments in brand-new, unused and fully functional condition at PCRWR Regional Office, Karachi.
5. Verification and demonstration of the supplied instruments to ensure compliance with the prescribed technical specifications and BOQ requirements.

The tender document contains items with specifications as under:

LOT 1: Supply and Installation of 12.9 KW Solar System:

Sr. No.	Description	Unit	Unit Rate (PKR) With Taxes	Amount (PKR) With Taxes
1.1	**Solar Panels (12900 watt Total)** Solar photovoltaic (PV) modules having a rated capacity of 640-680 Watts each. Advanced N-Type Monocrystalline cell technology or equivalent. Bifacial dual-glass construction or equivalent high-performance technology. Minimum module efficiency of 22%. Positive power tolerance of 0 to +3% or better. High resistance to Potential Induced Degradation (PID). Compliance with relevant international IEC standards, including IEC 61215 and IEC 61730. Minimum product warranty of 12 years and linear performance warranty of 30 years. Temperature Coefficient of Voc (-0.35 to-0.30). Temperature Coefficient (Pmax) (-0.42 to -0.39%) Maximum System Voltage (1000V DC) Maximum series fuse rating (15-20 A)	**01 Job**		
1.2	**12 KW 48V Three Phase Hybrid Solar Inverter** Hybrid solar inverter with a rated AC output capacity of 12 kW. Three-phase output configuration (380/400V AC). Compatible with lead-acid and lithium-ion battery systems. Battery voltage range of 40–60V DC or equivalent. Maximum battery charging current of 240A. Maximum battery discharging current of 240A. Maximum PV DC input power of 15,600 Watts or higher. Dual MPPT (Maximum Power Point Tracking) technology. MPPT voltage range of approximately 200–650V DC. Maximum solar PV input voltage of 800V DC or higher. Maximum inverter efficiency of 97% or higher. MPPT tracking	**01 No**		

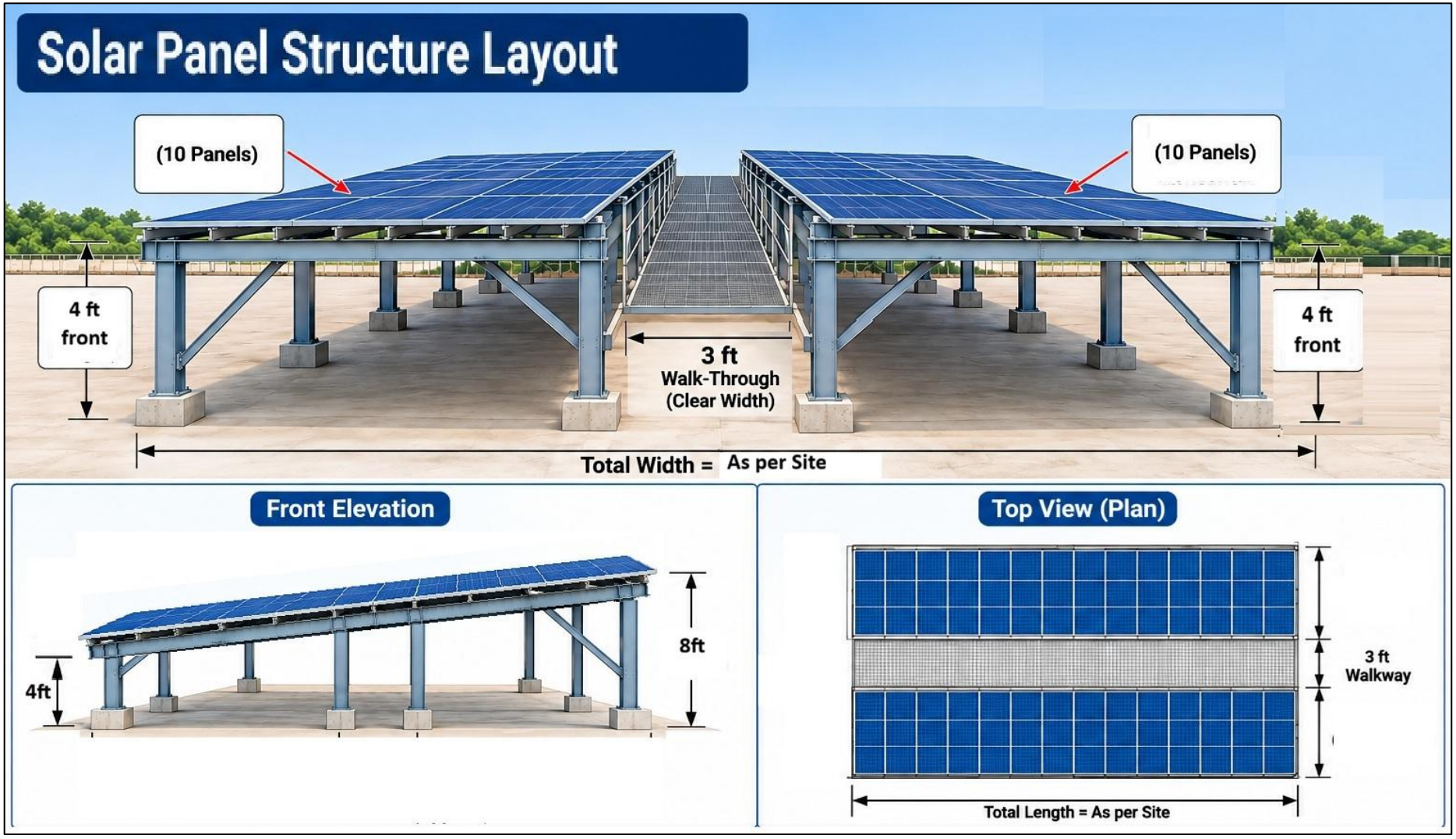
	efficiency of 99% or higher. Minimum manufacturer's warranty of 5 years, including applicable terms and conditions.			
1.3	Supply of the Solar System Complete Cables and allied accessories, Breakers, Junction Boxes, fittings, complete accessories of the solar system.	**01 Job**		
1.4	**Lithium Battery (Dry Battery/cell):** Battery chemistry: $LiFePO_4$ Capacity: 314 Ah Nominal voltage: 51.2 V Operating voltage: 44.8 V to 57.6 V Nominal energy: 16 kWh Scalability: up to 32 units in parallel Max continuous charge current: 160 A Peak charge current: 280 A (10 sec) Max continuous discharge current: 230 A Peak discharge current: 280 A (10 sec) Recommended depth of discharge: 90% Dimensions (W × H × D, without hanging board): 400 × 708 × 233 mm Weight: approx. 109 kg Indicators: LED (SOC, working, protecting) and buzzer IP rating: IP21 Operating temperature: charge 0 to 55°C, discharge -20 to 55°C Storage temperature: 0 to 35°C Relative humidity: 95% (non-condensing) Altitude: ≤ 3000 m Cycle life: ≥ 6000 cycles (25°C ± 2°C, 70% EOL) Installation: wall-mounted, floor-mounted, or stack-mounted Communication: CAN 2.0, RS485, Bluetooth + app Certifications: UN38.3, MSDS, CE, CB Advanced BMS with active fuse GaN MOSFETs for roughly 50% loss reduction and high-temperature resistance Auto-networking with no DIP switches Local monitoring for the battery and remote monitoring for the ESS	**01 No**		

1.5	Installation and Supply of Elevated Solar Structure (Mild Steel (MS) girders, columns, base plates with color coating) (Complete structure designed and installed as per required solar panels and area at any height). Cost Include all allied items including Civil works for foundation, RCC Foundation 2 x 2 ft), in appropriate numbers anchor bolts etc. Complete in all respect for the solar system. Cost Must include the surface preparation for the structure	**01 Job**		
1.6	Installation, Load Distribution, Testing and Commissioning: Complete installation and commissioning of the 12.9 kW hybrid solar system, including all necessary electrical connections, cabling and accessories. The work includes preparation of a 720 sq ft rooftop area (lump sum) for solar panel installation, comprising dismantling and removal of the existing damaged cement concrete (CC) to a depth of 2-3 inches, and re-laying of new 1:2:4 CC to provide a sound, level surface for mounting the panels. The surface shall be prepared to a smooth finish. All debris generated from dismantling shall be removed from site and disposed of by the contractor. The contractor shall assess the existing electrical load and distribute it between the previously installed solar system and the newly installed system through proper load segregation and changeover arrangements. The existing solar system shall be utilized for the designated loads, while the remaining loads shall be connected to the new system. Provision of Phase Sequencer System. All necessary electrical modifications, testing and commissioning shall be carried out to ensure safe, balanced and efficient operation of both systems.	**01 Job**		
	Total with All Taxes (PKR)			

LOT 2: Procurement of Laboratory Field Testing Equipment/ Instrument

Sr. No.	Description	Unit	Unit Rate (PKR) With Taxes	Amount (PKR) With Taxes
2.1	**TSS Portable Hand-held Turbidity, Suspended Solids & Sludge Blanket Level Instrument** **Measurement** • Principle: Combined multi-beam alternating light method with infrared diode system • Turbidity method: 2-channel 90° scattered light (DIN EN 27027 / ISO 7027), verified by six-channel multiple angle measurement • Suspended solids method: Modified absorbance measurement, six-channel multiple angle measurement **Turbidity:** • Range: 0.001 to 4000 NTU • Accuracy: Less than 3% or ±0.02 NTU, whichever is greater • Resolution: 0.001 (0 to 0.999 NTU); 0.01 (1 to 9.99); 0.1 (10 to 99.9); 1 (above 100) • Units: NTU, FNU, EBC **Suspended Solids** • Range: 0.001 to 400 g/L (1 to 400,000 mg/L); upper range depends on sample characteristics • Accuracy: Less than 4% or ±0.001 g/L, whichever is greater • Resolution: 0.001 (0 to 0.999 g/L); 0.01 (1 to 9.99); 0.1 (10 to 99.9); 1 (above 100) • Units: ppm, mg/L, g/L, % **Meter and Operation** • Operating modes: Single, interval, or continuous • Display: 24 mm (0.95 in.) UV-treated LCD graphic display; 4 alphanumeric lines of 16 characters • Internal data memory: Up to 290 measured values (time, date, measurement, location, homogeneity) • Calibration curves: Up to 4 for suspended solids (up to 3 points plus a	**01 No**		

	zero value each); 1 pre-calibrated for turbidity • Power: 6 rechargeable NiMH batteries (1.2 V min., 1800 mAh recommended) or 6 “AA” batteries • Charger: Plug-in, 115/230 Vac, 50/60 Hz • Current input: Approx. 60 mA **Environmental and Physical** • Operating temperature: 0 to 60°C (32 to 140°F) • Operating pressure: 0 to 10 bar (0 to 145 psi) • Relative humidity: 0 to 95% • Meter enclosure rating: IP55 • Probe enclosure rating: IP68 • Wetted materials: Probe: stainless steel; sensor window: sapphire • Sensor cable length: 10 m (32.8 ft.)			
	Total with All Taxes (PKR			


Solar Panel Structure Layout
(10 Panels)
(10 Panels)
4 ft
front
3 ft
Walk-Through
(Clear Width)
4 ft
front
Total Width = As per Site
Front Elevation
4ft
8ft
Top View (Plan)
3 ft
Walkway
Total Length = As per Site

- The performance period will be 105 Days, which will start from the date of issuing work/supply order.
- The successful bidder(s) is/are required to furnish a performance guarantee, equivalent to 10% of the contract amount within fourteen days of issue of supply/work order/award of contract. Otherwise, equivalent amount will be retained from payment for performance period . This amount will be treated as compensation for any loss resulting from the contractor's failure to complete its obligation.
- Performance guarantee/security will be forfeited in case of failure to successfully complete the performance period.

1. COMPLETION PERIOD

The allotted work should be completed within specified period of **15 days** after the receipt of work order. If work is not completed within the allocated time period then the contractor has to pay delay charges @ 0.01% of the total cost of the work for each delayed day.

The bidder will be responsible for complete execution of the work and for its free repair services during performance period.

2. MODE OF PAYMENT

No advance payment will be made to any firm against any supply /work order in any case. No such demand will be entertained and failure to execute work against supply order will lead to forfeiture of the earnest money. Payment shall be made in the form of cross-cheque, which shall be issued, after receipt of inspection report of PCRWR officer/ engineer. 10% payment (retention money) will be returned after defect liability period or completion of performance period.

3. PRICES

Prices charged by the bidder for goods delivered and services performed under the contract shall not exceed from the prices quoted by the supplier/contractor in its bid(s).

4. EVALUATION CRITERIA

The bids would be evaluated based upon their technical soundness with the Terms and Conditions set forth in this document. The lowest quoted bid as a whole meeting technical requirement will be selected.

5. DEFECT LIABILITY PERIOD

The defect liability period is **three months**, In case of failure; the same will be arranged from the retention money.

The procuring agency may cancel the tender as per PPRA rules. PPRA rules and other prevailing government rules shall be applicable.

The representative of PCRWR, or designated Engineer, may examine any item, equipment, material, supplies and/or services to be provided under this contract, at any time prior to expiry of this contract. He may reject or require alteration thereto or replacements thereof as a condition of acceptance. The findings shall be conclusive except with respect to defects or fraud, which may appear later. Accomplishment and/or execution of each item of work (total or a part thereof) shall be considered subject to the verification by the officer /Engineer/technician designated by the PCRWR.

GENERAL INFORMATION ABOUT THE CONTRACTOR/FIRM

1- Name of the Firm:_____

2- Main Line or Business:_____

3- Type of Organization:_____

4- Phone No(s)_____

5- Mailing Address:_____

6- Fax No._____

7- E-mail _____

8- Contact Person: _____

9- Income tax and sales tax numbers----------

SIGNATURE & SEAL OF CONTRACTOR/FIRM

INSTRUCTIONS TO TENDERERS (CLAUSE REFERENCE)

INSTRUCTIONS TO TENDERERS (CLAUSE REFERENCE)

1.1 **Name and Address of Employer**

Regional Director,
Pakistan Council of Research in Water Resources
Main University road, Behind Naseer Tower, Near KW&SB
Reservoir, Gulistan-e- Johar, Block-1, Karachi
Phones: (92-21)34028062, 99333717-8
E-mail: pcrwr.karachi@gmail.com

1.2 Tender shall quote entirely in Pak. Rupees. The payment shall be made to the supplier in Pak. Rupees.

The tenderer will provide the total cost indicating all applicable taxes.

a. The tenderer / contractor / manufacturer / distributor / authorized dealer / agents have the financial, technical capability necessary to carry out mentioned works as per mentioned specification as per Bidding Documents.

b. Tender validity is 135 days, after issuance of Work/Supply order(s) at PCRWR Regional Office, Karachi, at their own expenses and even at short notice if needed. Payment will be made after full satisfaction (demonstration will be mandatory). Delivery of equipment/instruments/completion of work will be in accordance to No. of days specified in the work /supply order.

c. If supplied items are found sub-standard or in-genuine, the contract will be cancelled and Security Deposits / Performance Security will be forfeited and the Firm will also be blacklisted.

d. The Firms must have Sales Tax Registration Certificate, National Tax Number, FBR Registration and Vender Number and have proper offices, shops/stores as well as facilities of telephone/fax and email. The Firm must be active filer.

e. Submission of any false statement/documents including concealing of information is likely to disqualify the bidder.

f. This Institute reserves the right to accept or reject any or all tenders without assigning any reason in accordance with rule 33(1) of PPRA-2004.

1.3 (a) A detailed description of the Works, essential technical and performance characteristic.

(b) Complete set of technical information, description data, literature and drawings as required in accordance with Tendering Data, Specific Works Data. This will include but not be limited to a sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and

other relevant information about the works to be performed.

1.4 Amount of Tender Security

The bidder shall furnish a Bid Security equivalent to 5% of the estimated/budgeted cost of the Lot(s) applied for. The Bid Security Shall be submitted separately for each applied Lot(s). Bids submitted without the required Bid Security or with an insufficient amount shall be considered non-responsive.The required Bid Security amounts are as follows:

- Lot No. 1: Rs. 225,000/-
- Lot No. 2: Rs. 100,000/-

1.5 Period of Tender Validity

135 days

1.6 Number of Copies of the Tender to be submitted

One original plus 1 copy.

1.7 Deadline for Submission of Tenders

11:00 AM, 30th November 2026

1.8 Venue, Time, and Date of Tender Opening

PCRWR Regional Office,
Main University Road, Behind Naseer Tower,
Near KW&SB Reservoir, Gulistan-e-Johar, Block-1, Karachi.

Time: 11:30 AM

Date: 30th November 2026

1.9 Responsiveness of Tenders

(i) the Tender is valid till required period,
(ii) the Tender prices are firm during currency of contract.
(iii) completion period offered is within specified limits,
(iv) the Tenderer/Manufacturer is eligible to Tender and possesses the requisite experience,
(v) the Tender does not deviate from basic technical requirements and
(vi) the Tenders are generally in order, etc.

FORMS OF TENDER
AND
SCHEDULES TO TENDER

SCHEDULE - TO TENDER

FORM OF TENDER

(LETTER OF OFFER)

To: _____

_____

_____

_____

Gentlemen,

1. Having examined the Tender Documents including Instructions to Tenderers, Tendering Data, Conditions of Contract, Contract Data, Specification, and Addenda Nos._____ for the PROCUREMENT AND INSTALLTION OF SOLAR SYSTEM AND LABORATORY/ FIELD TESTING EQUIPMENT UNDER THE UNICEF SUPPORTED PROJECT IN KARACHI, SINDH We, the undersigned, being a company doing business under the name of and address _____
_____
_____and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Tender Price of Rupees (_____) or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Tender.

3. As security for due performance of the undertakings and obligations of this Tender, we submit herewith a Tender Security in the amount of (Rs.) _____drawn in your favor or made payable to you and valid for a period of 28 days beyond the period of validity of Tender.

4. We undertake, if our Tender is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract. Comprised in the Contract within the time(s) stated in Contract Date.

5. We agree to abide by this Tender for the period of 127 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding contract between us.

7. We undertake, if our Tender is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.

8. We understand that you are not bound to accept the lowest or any Tender you may receive.

9. We do hereby declare that the Tender is made without any collusion comparison of figures or arrangement with any other person or persons making a Tender for the Works.

Dated this _____day _____

Signature: _____

in the capacity of _____duly authorized to sign tenders for and on behalf of

_____

(Name of Bidder in Block Capitals)
(Seal)

Address:

_____

_____

_____

_____

Witness:

Signature: _____

Name: _____

Address. _____

_____

Occupation_____

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ between REGIONAL DIRECTOR, PCRWR, KARACHI (hereinafter called the "Employer") of the one part and _____ (hereinafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witness as follows:

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

2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Bidders, shall be deemed to form and be read and construed as part of this Agreement, viz:

   (a) The Letter of Acceptance;
   (b) The completed Form of Bid along with Schedules to Bid;
   (c) Conditions of Contract & Contract Data;
   (d) The priced Schedule of Prices;

3. 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 defects therein in conformity and in all respects within the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

_____

(Seal)

Signature of the Employer

_____

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

_____

(Name, Title and Address)

Witness:

_____

(Name, Title and Address)