Kwale International Sugar Company Limited



TENDER FOR SUPPLY, INSTALLATION, TRAINING, TESTING AND COMMISSIONING OF AN AUTOMATIC WEATHER STATION

Tender No.: KISCOL/SC/AWS/2014-004

CLOSING DATE: Friday, 14th October, 2014

TIME: 1000 Hrs Local Time

(Bidders are urged to carefully read the whole document before submitting a bid. Failure to provide required information shall imply that the bidder either does not have the requested information or has chosen not to provide the same, in which case, the bid will be summarily disqualified)

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SECTION I: - LETTER OF INVITATION

TO: ALL BIDDERS

RE: SUPPLY, INSTALLATION, TRAINING, TESTING AND COMMISSIONING OF AN AUTOMATIC WEATHER STATION

1.1 Kwale International Sugar Company Limited (KISCOL) Invites Proposals for the supply, installation, training, Testing and commissioning and of an automatic weather station

1.2 Background

Kwale International Sugar Company Limited (KISCOL), Kenya, intends to engage capable bidders to perform the Supply, Installation, Training, Testing and Commissioning and of an automatic weather station to the company project site located in Msambweni district.

Objective & Scope of Assignment

The scope of this tender is the Supply, Installation, Training, Testing and Commissioning of an automatic weather station. The specifications for the required goods are provided as data sheets within the Technical Specifications section of the Tender document. The hardware proposed for supply shall meet all the minimum and maximum indicated specifications for a bidder to be considered compliant and responsive.

1.3 The tender includes the following documents:

Section I - Letter of invitation
Section II - Information to Bidders

Section III - Appendix to Information to Bidders
Section IV - Technical Proposal & Specifications

Section V - Tender Form & Price Schedule (Financial Proposal)
Section VI - Standard Forms & Confidential Business Questionnaire

1.3 For further clarifications and any queries, contact

The Director-Projects,

Kwale International Sugar Company Limited,

P.O. Box 46279-00100, Nairobi, Kenva,

Email: <u>tenders@kwale-group.com</u>. KISCOL shall not respond to requests for clarifications or information received by alternative methods.

- **1.4**The tender shall close on the date and time indicated in the Special Conditions of Tender. Any documents received after the indicated date and time shall be returned unopened to the bidder.
- **1.5**Bidders are requested to carefully read ALL the information requested in this Invitation to Bidders, the Instructions to Bidders, Special Conditions of tender and the Minimum Technical Specification sheets.
- **1.6**To avoid ambiguity, the following order shall prevail in determining responsiveness and scoring:
- 1.6.1Bidder must provide all the Pre-Evaluation Minimum Mandatory requirements shown in Sec
- 2.3.4 (v) of the Special Conditions of Tender. Bidders must then meet a minimum of 95% pass-mark to proceed to Technical Evaluation of Specifications.
- **1.6.2**Bidders meeting at least 95% of the Minimum Mandatory requirements will then be evaluated for responsiveness to the Minimum Technical Specifications.
- **1.6.3** Only bidders who meet the Minimum cut-off points of 80% on the Minimum Technical Specifications will then be evaluated to determine their priced financial responsiveness.
- **1.6.4** The priced financial bid amongst the most responsive (80% or >) technical bids shall then be prorated to 20%.
- **1.6.5**The firm scoring the highest prorated total (Technical plus Financial) marks will be considered for tender award
- **1.6.6**KISCOL in not bound to award the contract to the lowest priced submitted bid. Where technical equivalence amongst bidders is established, KISCOL reserves the right to award the contract to one or more bidders without giving reasons for the same.

The Director-Projects.

2.0

SECTION II: - INFORMATION TO BIDDERS

2.1 Introduction

- 2.1.1 The Client named in the Appendix to "ITB" will select a firm among those invited to submit a proposal, in accordance with the method of selection detailed in the appendix.
- 2.1.2 The Bidders are invited to submit a Technical Proposal and a Financial Proposal.
- 2.1.3 The Bidders must familiarize themselves with local conditions and take them into account in preparing their proposals. To obtain first hand information on the assignment and on the local conditions, Bidders are encouraged to liaise with the Client regarding any information that they may require before submitting a proposal and to attend a pre-proposal conference where applicable.
- 2.1.4 Please note that (i) the costs of preparing the tender and of negotiating the Contract, including any visit to the Client are not reimbursable as a direct cost of the assignment; and (ii) the Client is not bound to accept any of the proposals submitted.
- 2.1.5 KISCOL's employees, committee members, board members and their relatives (spouse and children) are not eligible to participate in the tendering process.
- 2.1.6 KISCOL shall allow the tenderer to review the tender document free of charge before purchase. The document can be downloaded from the company's website for viewing.
- 2.1.7 A single mandatory site visit will be conducted on Thursday the 2nd of October, 2014 at the KISCOL project site located at Msambweni in Kwale County. Bidders shall make their own arrangements to attend the site visit.

2.2 Clarification and Amendment of tender Documents

- 2.2.1 Bidders may request a clarification of any of the tender documents only up to three [3] days before the tender submission date. Any request for clarification must be sent in writing by paper mail, cable, facsimile or electronic mail to the Client's address indicated in the Appendix "ITB". The Client will respond by cable, facsimile or electronic mail to such requests and will send written copies of the response (including an explanation of the query but without identifying the source of inquiry) to all invited Bidders who intend to submit proposals.
- 2.2.2 At any time before the submission of proposals, the Client may for any reason, whether at his own initiative or in response to a clarification requested by an invited firm, amend the tender. Any amendment shall be issued in writing through addenda. Addenda shall be sent by mail, cable or facsimile to only those bidders who have purchased the tender document and the addenda will be binding on them. The Client may at its discretion extend the deadline for the submission of proposals.

2.3 Preparation of Technical Proposal

- **2.3.1** The bidder's proposal shall be written only in the English language.
- **2.3.2** In preparing the Technical Proposal, Bidders are expected to examine the documents constituting this tender in detail. Material deficiencies in providing the information requested may result in rejection of a proposal.
- **2.3.3** While preparing the Technical Proposal, Bidders must give particular attention to the following: if a firm considers that it does not have all the expertise for the assignment, it may

obtain a full range of expertise by associating with other firms or entities in a joint venture or partnership. Such partners will be expected to avail themselves for any demonstrations requested by KISCOL within a reasonable time, should it be deemed necessary that such a demonstration will allow KISCOL a fuller picture of the suppliers capability and capacity to perform the contract.

- **2.3.4** The Technical Proposal shall provide the following information using the attached Standard Forms;
 - (i) A brief description of the firm's organization and an outline of recent experience on the supply of similar equipment. For each assignment the outline should indicate *inter alia*, the profiles of the equipment proposed for supply, clients supplied and contract amounts.
 - (ii) In preparing the technical proposal, bidders are required to familiarize themselves with existing conditions at the site and must ensure that the components used in constructing the proposed goods are suitable for use and durability in the existing climate of the project site.
 - (iii) Any additional information relevant to the success of the bidders' submission.
- **2.3.5** The Technical Proposal shall not include any financial information.
- **2.3.6** The proposal must be submitted with a bid bond from a reputable local bank for a fixed amount of KShs. 500,000 (Five Hundred thousand Kenya Shillings). Bid bonds shall be valid for at least thirty (30) days beyond the period of Price Validity. Bid Bonds from Insurance firms will not be accepted and will lead to automatic disqualification.
- **2.3.7** The Technical proposal shall be strictly arranged in the order presented below:
- **2.3.7.1** A cover or tender transmittal letter
- **2.3.7.2** All Minimum Mandatory requirements/documents in the sequence and order shown in Subsection 2.3.4 (v) of the Special Conditions of Tender
- 2.3.7.3 The raw tender document including filled Technical Specifications and filled signed and stamped Tender forms (i.e. Pages 1 to 28) of this document. CD's, where required in the Technical specifications, shall be placed in the Technical section
- **2.3.7.4** Technical Brochures and Diagrams.
- **2.3.7.5** The documents so arranged shall be bound and presented in the manner described in Section 2.5

2.4 Preparation of Financial Proposal

- **2.4.1** The Financial Proposal shall not contain the Bid Bond or any accounting information.
- **2.4.2** In preparing the Financial Proposal, Bidders are expected to take into account the requirements and conditions outlined in the tender documents.
- **2.4.3** Bidders shall express the price of their services in US Dollars only.
- **2.4.4** The Proposal must remain valid for at least ninety (90) days after the tender submission date. The Client will make his best effort to complete negotiations within this period. If the Client wishes to extend the validity period of the proposals, the Bidders shall agree to the extension.

2.5 Submission, Receipt, and Opening of Proposals

2.5.1 The original proposal (Technical Proposal and Financial Proposal; see Para. 1.2) shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the firm itself. Any such corrections must be initiated by the persons or person authorised to sign the proposals.

- **2.5.2** For each proposal, the Bidders shall prepare the number of copies indicated in Appendix "A". Each Technical Proposal and Financial Proposal shall be marked "ORIGINAL" or "COPY" as appropriate. If there are any discrepancies between the original and the copies of the proposal, the original shall govern.
- 2.5.3 The original and all copies of the Technical Proposals shall be placed in a sealed envelope clearly marked "TECHNICAL PROPOSAL" & "Supply, Installation, Training, Testing and Commissioning of an automatic weather station" and the original and all copies of the Financial Proposal in a sealed envelope clearly marked "FINANCIAL PROPOSAL" & "Supply, Installation, Training, Testing and Commissioning of an automatic weather station" and warning: "DO NOT OPEN WITH THE TECHNICAL PROPOSAL". Both envelopes shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address and other information indicated in the Appendix "ITB" and be clearly marked, "DO NOT OPEN, EXCEPT IN THE PRESENCE OF THE TENDER OPENING COMMITTEE."
- **2.5.4** The completed Technical and Financial Proposals must be delivered at the submission address on or before the time and date stated in the Special Conditions of Tender. Any proposal received after the closing time for submission of proposals shall be returned to the respective bidder unopened.
- **2.5.5** After the deadline for submission of proposals, the Technical Proposal shall be opened immediately by the opening committee. The Client shall prepare minutes of the public opening.
- **2.5.6** The Financial Proposal shall remain sealed and deposited with a responsible officer of the client up to the time for public opening of financial proposals.

2.6 **Proposal Evaluation General**

- **2.6.1** From the time the bids are opened to the time the Contract is awarded, if any bidder wishes to contact the Client on any matter related to his proposal, he should do so in writing at the address indicated in the Appendix "ITB". Any effort by the firm to influence the Client in the proposal evaluation, proposal comparison or Contract award decisions may result in the rejection of the bidder's proposal.
- **2.6.2** Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.
- **2.6.3** The order of evaluation of the proposals shall be as detailed in the Section I: Letter of Invitation, Subsection 1.6 (1.6.1 to 1.6.5).

2.7 Evaluation of Technical Proposal

- **2.7.1** The evaluation committee appointed by the Client shall evaluate the proposals on the basis of their responsiveness to the Minimum Technical Specifications, applying the evaluation criteria as detailed in the Technical Specification Sheets.
- **2.7.2** Each responsive proposal will be given a technical score (St). A proposal shall be rejected at this stage if it does not respond to important or critical aspects of the Technical Specifications or if it fails to achieve the minimum technical score indicated in the Special Conditions of Tender.
- **2.7.3** Lack of clarity for any line item proposed in the Technical Specifications will be assumed to mean that the option is missing and will be awarded zero/nil (0) marks.

2.8 Opening and Evaluation of Financial Proposal

- **2.8.1** After Technical Proposal evaluation, the Client shall notify those Bidders whose proposals did not meet the minimum qualifying mark as stated in the evaluation criteria or were considered non-responsive to the tender and Terms of Reference, indicating that their Financial Proposals will be returned after completing the selection process.
- **2.8.2** The evaluation committee will determine whether the financial proposals are complete (i.e. whether the bidder has costed all the items of the corresponding Technical Proposal and correct any computational errors. The cost of any un-priced items shall be assumed to be included in other costs in the proposal. In all cases, the total price of the Financial Proposal as submitted shall prevail.
- 2.8.3 While comparing proposal prices between local and foreign firms participating in a selection process in financial evaluation of Proposals, firms incorporated in Kenya where indigenous Kenyans own 51% or more of the share capital shall be allowed a 10% preferential bias in proposal prices. However, there shall be no such preference in the technical evaluation of the tenders. Proof of local incorporation and citizenship shall be required before the provisions of this sub-clause are applied. Details of such proof shall be attached by the Bidder in the financial proposal. For purposes of establishing the registration status of the Bidders, a copy of the same documents shall also be placed in the Technical proposal by all Bidders irrespective of whether the bidder is of local or foreign origin.
- **2.8.4** The formulae for determining the Financial Score (Sf) shall, unless an alternative formulae is indicated in the Appendix "ITB", be as follows:-
 - Sf = 100 X $^{\rm FM}/_{\rm F}$ where Sf is the financial score; Fm is the lowest priced financial proposal and F is the price of the proposal under consideration. Proposals will be ranked according to their combined technical (St)and financial (Sf)scores using the weights (T=the weight given to the Technical Proposal: P= the weight given to the Financial Proposal; T + p = I) indicated in the Appendix. The combined technical and financial score, S, is calculated as follows:- $S = St \times T + Sf \times P + Sf \times P$
- **2.8.5** The tender evaluation committee shall evaluate the tender within not more than 30 days from the date of opening the tender.
- **2.8.6** Contract price variations shall not be allowed

2.9 Negotiations

- **2.9.1** Negotiations will be held at the same address as "address to send information to the Client" indicated in the Appendix "ITB". The aim is to reach agreement on all salient points and sign a contract.
- 2.9.2 Negotiations will include a discussion of the Technical Proposal, the proposed methodology (work plan), staffing and any suggestions made by the firm to improve the Terms of Reference. The Client and firm will then work out final Terms of Reference, indicating activities, logistics and reporting. Special attention will be paid to getting the most the firm can offer within the available budget and to clearly defining the inputs required from the Client to ensure satisfactory completion of the contract by the supplier.
- **2.9.3** The negotiations will conclude with a review of the draft form of the Contract. To complete negotiations the Client and the selected firm will initial the agreed Contract.
- **2.9.4** If negotiations fail, the Client will invite the firm whose proposal received the second highest score to negotiate a contract.

2.9.5 KISCOL shall appoint a team for the purpose of the negotiations.

2.10 Award of Contract

- 2.10.1The Contract(s) will be awarded following negotiations. After negotiations are completed, the Client will promptly notify other Bidders on the shortlist that they were unsuccessful and return the Financial Proposals of those Bidders who did not pass the technical evaluation. The award of the contract, should the client choose so, will be subject to successful site visits to the bidder, product demonstrations and contract negotiations or a combination of any of these.
- 2.10.2 The selected firm(s) is/are expected to complete the supply on the date and at the location specified in Appendix "A".
- 2.10.3 The parties to the contract shall have it signed within thirty (30) days from the date of notification of contract award unless there is an administrative review request.
- 2.10.4 KISCOL may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 2.10.5 KISCOL shall give prompt notice of the termination to the bidders and on request give its reasons for termination within 14 days of receiving the request from any tenderer.
- 2.10.6 To qualify for contract awards, the tenderer shall have the following:
 - (a) Necessary qualifications, capability experience, services, equipment and facilities to supply and deliver the required vehicle.
 - (b) Legal capacity to enter into a contract for procurement
 - (c) Shall not be insolvent, in receivership, bankrupt or in the process of being wound up and is not the subject of legal proceedings relating to the foregoing.
 - (d) Shall not have been debarred by KISCOL from participating in KISCOL's procurement and shall not have also been debarred from participating in public procurement proceedings.

2.11 Confidentiality

2.11.1 Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the Bidders who submitted the proposals or to other persons not officially concerned with the process, until the winning firm has been notified that it has been awarded the Contract.

2.12 Corrupt or fraudulent practices

- 2.12.1 KISCOL requires that the Bidders observe the highest standards of ethics prior to and during the selection and award of the consultancy contract and also during the performance of the assignment. The tenderer shall sign a declaration that he has not and will not be involved in corrupt or fraudulent practices. This declaration is mandatory and shall form part of the technical proposal.
- 2.12.2 KISCOL 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.

SECTION III: SPECIAL CONDITIONS OF TENDER

Note on the Appendix to Information to Bidders

- 1. The Appendix to information to bidders is intended to assist KISCOL in providing specific information in relation to corresponding claims in other parts of the document.
- 2. Bidders are urged to carefully read the Special Conditions of Contract below before submitting a bid. Failure to provide required information shall imply that the bidder either does not have the requested information or has opted not to provide the same, in which case, the bid will be summarily disqualified if they fail to meet the pass-mark required in 2.3.4 below.
- 3. KISCOL is specifying in this appendix, information and requirements specific to the circumstances of the project. KISCOL also assumes that by submitting the bid, the bidder allows KISCOL to verify the information provided by the bidder.

Appendix to Information to Bidders

The following information shall complement or amend the provisions of the Information to Bidders. Wherever there is a conflict between the provisions of the information to bidders and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the information to bidders.

- 2.1 The name of the Client is **Kwale International Sugar Company Limited**
- 2.1.1 The method of selection is **Quality and Price**
- 2.1.2 Technical and Financial Proposals are requested: **Yes, in separate envelopes.**Only firms meeting the minimal Technical Pass-mark will be invited for Financial Opening.
- 2.1.7 A single mandatory site visit will be conducted on Thursday the 2nd of October, 2014 at the KISCOL project site located at Msambweni in Kwale County. Bidders shall make their own arrangements to attend the site visit.
- 2.3.4 (v) Additional information requested includes: Mandatory requirements specified in the Invitation to Bidders Section III, Subsection 1.6 (1.6.1 to 1.6.5) shall be:

The following shall be deemed to be Minimum Mandatory requirements and shall form the basis of the initial evaluation criteria, failure to provide any of the said documents or providing defective or falsified documents being grounds for automatic/summary disqualification of the application. The said documents shall augment the details provided in the Technical Requirements data sheets which will only be evaluated once the following information has been deemed satisfactory.

Only firms which achieve 95% at this stage will proceed for Technical Evaluation

- 1. Bid Bond/Security in the amount and validity indicated in Section II, subsection 2.3.6 (10 Points)
- 2. OEM's must provide standard and currently dated Warranties and Guarantees directly addressed to KISCOL for the supply and delivery of the proposed equipment. (4 points)
- 3. Certified copy of the firms' certificate of Incorporation. (2 Points), Certified copy of valid KRA Tax Compliance certificate (for locally incorporated firms or local consortium partners) (2 Points), Certified Copies of both the firms PIN & VAT Certificates. (2 Points), Certified Copy of firms Single Business Permit (for locally incorporated firms and/or local consortium partners) (2 Points) (Total = 8 Points).
- 4. Certified Audited Accounts for the last three (3) Years (1 Point for each provided year) showing profitability for all the three years (2 Points for each profitable year). (Total = 9 Points)

- 5. A company profile showing the firms areas of competence, products and a detailed list of similar projects showing the product supplied to at least 3 clients over the last two (2) years, dates of supply, clients supplied, contact persons with email addresses and working Telephone numbers. (3 Points). The profile shall also contain a Power of Attorney appointing the signatory to the tender document and future contract negotiations and possible award (3 Points). The profile shall also contain a Letter of No Objection authorizing KISCOL to, at its discretion, verify any and/or all information provided by the bidder(3 Points). (Total=9 Points)
- 6. A Manufacturers Authorization Letter for firms which are not Original Equipment Manufacturers of the required goods. Manufacturers must submit a letter in lieu of the Manufacturers Authorization Letter. (5 Points)
- 7. Current original Letters of recommendation from three (3) of the firms major clients relevant to the goods offered for supply over the last three (3) years (KISCOL may choose to visit the firms to establish the veracity of the performance of the firms' previous contracts).(15 Points)
- 8. Evidence of a Physical Registered office. Such evidence shall be in form of utility (Water or Electricity) bills for the last six months, rental or lease agreements, etc for all bidder firms. (2 **Points**)
- 9. The applicant should provide the name(s) and address of the banker(s) familiar with the applicants' financial standing and a letter from the banker detailing both the availability and amount of credit for servicing the contract if awarded. (10 Points)
- 10. Applicants shall provide all relevant litigation information for the last three (3) years. Firms are urged to be truthful in respect of the litigation information provided. (5 Points)
- 2.4.1 The Bid Bond, of KShs 500,000/=, shall only be placed in the Technical Proposal.
- 2.5.2 Bidders must submit One (1) original hard proposal and one (1) additional hard copy of each proposal. Bidders must also submit one (1) copy of the technical document in C.D. format. The CD Copy shall not contain any pricing information.
- 2.5.3 The proposal submission address is:

The Director-Projects, Kwale International Sugar Company Limited P.O. Box 46279-00100, Nairobi, Kenya Head Office, located at Unifresh Exotics House, Baba Dogo Road, Ruaraka

Information on the outer envelope should also include the words; **Tender Number: KISCOL/SC/AWS/2014-004**, **Tender for the Supply, Installation, Training, Testing and Commissioning of an automatic weather station and should not have any indication as to the identity of the bidder.**

- 2.5.4 Proposals must be submitted no later than 14th October, 2014 at 1000Hrs.
- 2.6.1 The address to send information to the Client is as per clause 2.5.3
- 2.8.3 Not Applicable
- 2.8.5 Alternative formulae for determining the financial scores are the following;

The weights given to the Technical and Financial Proposals are:

T = 0.80 (80%) and P = 0.20 (20%)

Section VIII: Performance Security Bond: A Performance Bond of Ten Percent (10%) of the Contract Price shall be provided at contract award

SECTION IV: - TECHNICAL PROPOSAL

Notes on the preparation of the Technical Proposals

- 4.1 In preparing the technical proposals the bidder is expected to examine all terms and information included in the tender document. Failure to provide all requested information shall be at the bidders own risk and may result in rejection of the bidder's proposal.
- 4.2 The technical proposal shall provide all required information and any necessary additional information and shall be prepared using the standard forms provided in this Section.
- 4.3 The Technical proposal shall not include any financial information unless it is allowed in the Appendix to information to the bidders or the Special Conditions of contract.
- 4.4 Even though firms may have satisfied all the mandatory and technical requirements, they may still be disqualified if they have:
- 4.4.1.1 Made erroneous, misleading or false representation or deliberately suppressed the Information to be provided in the forms, statements and enclosures of this document,
 - 4.4.2 If subsequent confidential enquiry reveals facts contrary to the information provided by the applicant.
- 4.5 Please note that by filling this document and returning it, you authorize KISCOL to choose to verify all or any information provided therein.
- 4.6 The Tenderer shall furnish copies of all certificates and documents issued by the proper Authorities, that the Manufacturer of the goods proposed for supply is authorised to manufacture and sell these products.
- 4.7 A company, which is not known by KISCOL or is not well recognised by the international community, must provide evidence of certification by an internationally recognized authority (e.g. ISO or similar, as approved by KISCOL) or be subject, at the Company's expense, to inspection by a competent authority designated by KISCOL in conjunction with the national regulatory authority.

TECHNICAL PROPOSAL SUBMISSION FORM

[
To:
Kwale International Sugar Company Limited
Ladies/Gentlemen:
We, the undersigned, offer to Supply, Installation, Training, Testing and Commissioning of a automatic weather station to Kwale International Sugar Company Limited in accordance with you tender dated[Date] and our Proposal.
We are hereby submitting our Proposal, which includes this Technical Proposal, [and a Financial Proposal sealed under a separate envelope].
We understand you are not bound to accept any Proposal that you receive.
We remain,
Yours sincerely,
[Authorized Signature]:
[Name and Title of Signatory]:
[Name of Firm]:
[Address:]
[Stamp or Company Seal]

Specifications for Supply, Installation, Training, Testing and Commissioning of Automatic Weather Station at Ramisi for Kwale International Sugar Company Ltd

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1. SCOPE OF THE CONTRACT

The scope of the contract covers site preparation, supply, Installation, testing and commissioning of Automatic Weather Stations (AWS) and training of technicians at Kwale International Sugar Company Ltd (KISCOL). The Automatic weather Station (AWS) should be able to measure wind speed and direction, Air and soil temperatures (Maximum and Minimum), Relative humidity, Atmospheric pressure, precipitation, solar radiation and sunshine hours and Evaporation. The bidder will also provide on-site training to three employees on the operation and maintenance of the equipment.

2. TECHNICAL SPECIFICATIONS

2.1 OVERALL REQUIREMENT OF AWS SYSTEMS TO BE SUPPLIED

2.1.1 Mast and Ground Preparation

- (a) The bidder shall Supply, Transport and Install Automatic Weather Station on 10 m Lattice mast at the selected site. All the steel used in the construction including guy wire shall comply with BS EN 10 025 grade. Welding shall be in accordance with BS EN ISO 1011.
- b) The Mast should have the necessary supports and accessories for mounting the sensors.
- c) Include the cost for design of foundations, supply of foundation materials, transport, installation, and labour in the tender price.
- d) The mast should have a 2 meters lightning rod at the top and a Ground rod for protection that will be installed up to 2 meters deep in the ground and the three legs of the tower will be connected to a common ground rod. The lightening protection supplied should be complete with cables, mounting brackets and accessories.
- e) Construct a chain link fence around the weather station on metallic posts measuring about 15m x 20m square and shall be provided with a metal gate measuring 2 m x 1m (Height by Width).

2.1.2 Automatic Weather Station (AWS)

- a). All equipment should comply with World Metrological Organization Standards and should be suitable for outdoor applications. The AWS must be housed in weather-proof enclosure and shall meet all specified environmental specifications.
- b) The chassis/enclosure should withstand hostile environment and its molding should be completely sealed by suitable gasket to avoid penetration of moisture, salinity etc.
- c) AWS system should have in-built memory of storing data for at least 12 months period.
- d) Personal Computer Memory Card International Association (PCMCIA) memory card slot or any other commercially available latest technology memory device for data retrieval and transfer of set up of the system. All set up and configuration files should be transferable through the solid state memory device to the data logger and vice versa. The equipment shall be compatible and integratable to the company's ERP & Agricultural Management System
- e) The system should have inbuilt test facility to monitor and display the configuration and functions of various subsystems including present and past data.

- f) Two RS-232, one RS-485 and one USB port are to be provided. The ports are to be used for programming and data retrieval, thus making the system fully compatible with a Personal Computer (PC) / Laptop, as and when required.
- g) The sensors along with the accessories and facilities shall be fully compatible with the data logger and transmission system.
- h) The supply of the sensors includes cables for connecting the sensors to the data logger.
- i) All the accessories, tools and fixtures required for the installation and dismounting / remounting of the equipment shall be treated as a part of the supply for each type of sensors. Such kits should be supplied with the main AWS systems. Details of each item should be mentioned and quoted in the bid.
- k) Instrument supplied should be suitable for Kenya which lies across the equator.

2.2 TECHNICAL SPECIFICATION OF AWS SYSTEMS TO BE SUPPLIED

2.2.1 AWS Site Preparation

The bidder shall prepare the AWS site according to the details given below in KISCOL concession. It is to be ensured that KISCOL representative is present at the site at the time of site preparation / installation and official commissioning of the AWS site. All cabling in the AWS site should be concealed/underground using suitable GI/steel piping /conduits.

a) AWS enclosure

Area of the AWS enclosure should be ideally 20 m x 15 m.

b) Fencing for the AWS site

- (i) The height of the fencing for the AWS site enclosure must be 2.0 metres from the ground level.
- (ii) Fencing angle should be of size 50mm x 50mm x 6mm and pre coated with red-oxide. Length of the angle shall be 2.8 metres i.e. (2.0m above ground level + 0.8 m below ground level). (iii) Two MS angles must be used diagonally at each of the four corner angles of the site. The angles can be attached (with welding or the other appropriate means) from the middle of the existing corner angle to the ground. The depth of the support will remain the same as that of main angle.
- (iv) Distance between each fencing angle should be not more than 3 m.

c) Chainlink

Dimensions of GI Chainlink: 3 inches x 3 inches and of (3 mm diameter). GI chain link mesh must be stretched and welded/fixed properly on the fencing angles.

d) Gate

- (i) Dimensions: 2 m x 1 m x 6 mm (Height x Width x Thickness) with Suitable locking facility with 3 keys for safety purposes is mandatory. Standard rust-proof locks shall be used.
- (ii) The gate must be fabricated by Mild Steel (MS) Angles whose dimensions should be minimum 40mm x 40mm x 6mm.

- (iii) Gate should have proper support of MS angles with additional support of crossed MS angles.
- (iv) Make sure that tower foundation and the gates are in a straight line.
- (vi) Gate and MS Angle must be well painted with silver color.

e) Tower Foundation

Dimensions: 1067mm x 1067mm (length x width) and 5 ft deep. The raised platform of the foundation must be 707mm above the ground level. (This value is liable to change as per the selected location)

f) Rain Gauge foundation

The Rain gauge foundation must be of dimensions 457mm x 457mm (length x width) and 914mm deep. The raised platform should be six inches above the ground level. The base plate of rain gauge should be 305 mm. above ground level.

g) Anchor Rod and Guy rope

The foundation for the Anchor Rod which holds the guy rope must be of dimensions 305mm x 1.0 ft 305mm(length x width) at the ground level and 914mm deep.

i) Security Guard Shelter

A standard temporary movable guard shelter, commonly used by security firms in Kenya should be provided.

h) Painting

The AWS tower should be painted with 2 coats primer and two coats of refractive paint. The fencing angles and gate should be properly painted in silver color to avoid rusting.

2.2.2 Data logger

The system shall have an integrated microprocessor based data acquisition and storage system having adequate hardware configuration and software support to serve as an interface between sensors and the communication link to perform tasks stated below:

- a) The system shall automatically collect the observations from attached sensors, process the same and store them into its memory as per the pre programmed procedure at every full hour UTC.
- b) Providing necessary electrical power to the sensors and conversion of electrical output signals from the sensors into engineering values based on calibration equations stored in the memory. Full compatibility with all types of sensors provided in the packages shall be mandatory.
- c) Storage of observed data along with time for all the parameters in the memory. Memory capacity to retain at least one year's data is required. Data shall be available even if the power supply to the system has failed (RAM Backup battery) for one year.
- d) The stored data shall be retrievable via serial port to a PC/laptop and a PCMCIA card or any other compact and commercially available solid state memory device.
- e) The system should compute the data so that the user can receive hourly and daily data.

- f) The system should be capable of continuous updating of the values of sensed weather parameters and post processing the instantaneous values into average values over a specified period of time.
- g) Management of AWS transmitter to optimize the battery consumption.
- h) The system shall provide a complete health status of the battery, transmitter and other components.
- i) The system shall have a weather-proof housing.

The Data logger should be have the following characteristics:

- a) Should have in-built Display
- b) Data archiving at user defined interval in Worlds Meteorological organization (WMO) format.
- c) Capable of data storage above 1 GB or more or store data for at least 6 months.
- d) Integrated power management
- e) System configuration interface by user; onsite or remotely.
- f) Interface for connection to a computer on site.

2.2.3 Basic Automatic Weather Station System Enclosure

- Waterproof, steel Fitted with data logger
- Houses the battery pack Houses the charging system
- Houses the necessary communication interface

2.2.4 Power Supply

- a) DC power supply:
 - battery inside System Box, capable of sustaining system for at least 1 week without charge
 - Battery charger, wiring and accessories
 - Solar Panel (not more that 203mm by 203mm) capable of supplying the basic AWS configuration and associated data collection and transmission modules.
- b) AC power supply:
 - Adapter from 220-240V 50Hz capable of supplying the Basic AWS configuration.

0 . 50

2.2.5 Individual Sensor Specifications:

- 1. Wind speed and wind direction
- A. Wind Speed Sensor

a)	Range0	to	50	m/s
----	--------	----	----	-----

- b) Gust Survival......50 m/s
- c) Accuracy0.2 m/s
- e) Sensor Type......3-Cup
- g) Cable10m
- B. Wind Direction

a) Range0 to 359 deg.
b) Accuracy0.3% or better
c) Resolution 5deg. or better
d) Threshold0.5 m/s or less
The wind sensors should withstand pressures like from small birds or they should have a bird perch.
3. Air Temperature and Relative Humidity Sensors (With Radiation Shield plus housing):
A. Air temperature (Max. & Min.): Should have the following minimum specifications:
a) Range10 to 45 °C
b) Accuracy
c) Resolution
B. Relative Humidity : Should have the following minimum specifications:
a) Range30% to 100%
b) Accuracy5%
c) Resolution5%
4. Solar Radiation Sensors: Should have ISO/WMO Classification -1st Class with the following
minimum specifications:
a) Range0 to 2000W/m ²
b) Spectral Range310 to 2800 nm
c) Sensitivity (nominal)
d) Temperature Range10 to 60oC
e) Calibration Traceability WRR
5. Atmospheric Pressure Sensors: Should have the following minimum specifications:
a) Operating altitude:sea level to 400 m;
b) Range600 to 100hPa
c) Accuracy:
6. Sunshine duration sensor
a)Range:400 to 1100nm;
b) Sunshine signal $1 \pm 0.1v$
c)Accuracy: <u>></u> 90%
d) Sensitivity
7. Tipping Bucket Rain Gauges: Should have the following minimum specifications:
a) Range: 0 mm to 200 mm per hour;
b) Accuracy:4% up to 200 mm; and
c) Sensitivity:

2.2.6. Evaporation Pan It should have the following minimum specifications

a) Made of stainless steel

- b) Dimensions of a "class A" evaporation pan,
 - height=254 mm
 - diameter =1206 mm
 - thickness=1.193mm
- c) Heliarc welded, 12.7 mm drain plug,
- d) Wooden support,

2.2.7. Lattice Mast

Complete mast with all the mounting hardware and accessories. It includes:

- a) Pole Mast 10m
- b) Foundation Set
- c) Equilateral triangle Guy Wire Set
- d) Tower and guy should withstand winds of up to 50m/s
- e) 2m lightning and ground rods

2.2.8. Operation Laptop

- a) Network ready;
- b) In built data reception and transmission software
- Software for data communication to an Automatic Message switching system in WMO format.

Minimum Specifications

- a) Processor
 - Processor Type: Intel® CoreTM i7
 - Speed: 2.6 GHz
 - Level Cache Size: 4MB
 - Front Bus speed: 1333MHz
- b) Graphics Graphics: NVIDIA Quadro FX 1800M graphics with 1 GB dedicated GDDR5 video memory
- c) Memory Installed RAM: 4GB RAM Type: DDR3 SDRAM RAM expandable to: 8GB
- d) Storage devices Hard Drive Capacity: 320GB 7200rpm Controller Type: SATA Optical drive: DVD+/-RW SuperMulti DL LightScribe
- e) Display Display Size: 15.6" diagonal LED-backlit FHD anti-glare Display Technology: TFT active matrix
- f) Resolution: 1680 *1050
- g) Networking (On board) Data Link Protocol: Gigabit LAN 10/100/1000Mbps Wireless: Intel Centrino® Ultimate-N 6300 (3x3) 802.11a/b/g/n
- h) Ports and Connectivity(In-built) USB Ports: 6 TV- out port: 1 PC Card Slots: 1 Fire wire Port: 1 Wireless: 1 Bluetooth 2.1: 1 VGA Video Out Ports: 1 RJ-45: 1

i) Keyboard: Spill-resistant keyboard with numeric keypad and with external mouse To be supplied with operation manual and Should have (2) year Warranty;

2.2.9 Spare Parts (Sensors)

- a) Anemometer
- b) Wind Vane
- c) Air temperature and Relative Humidity
- d) Barometric Pressure
- e) Sunshine duration sensor

2.2.10 Onsite Training

Onsite training for 3 KISCOL Staff members

2.2.11 Aws Documentation (Hardcopy and Softcopy):

Including:

- 2 sets of technical manuals in English
- 2 sets of Operators manuals in English
- 2 sets of Installation and Maintenance Manuals in English

Section V. Tender Form and Price Schedule			
(i) Form of Tender	r		
		Date: Tender N°:	
Т.		Tender N°:	
To: The Director Projects Kwale International	s, Sugar Company Limited.		
Gentlemen and/or La	adies:		
		ding Addenda Nosduly acknowledged, we, the undersigned, offer to	
supply and deliver [Description	of goods]		
In conformity with the	ne said tender documents for amount in words and figu	or the sum ofres]	
	s may be ascertained in acc	cordance with the Schedule of Prices attached herev	with
	e, if our Tender is accepted the Schedule of Requirem	d, to deliver the goods in accordance with the deliverents.	ery
Percent of the Contra		n the guarantee of a bank in a sum equivalent to 10 mance of the Contract, in the form prescribed by(Procuring entity).)%
for tender opening of		of [Number] days from the date fixed ers, and it shall remain binding upon us and may be at period.	;
	ereof and your notification	uted, this Tender, together with your of award, shall constitute a binding	
6. We understand that receive.	at you are not bound to acc	ept the lowest or any tender you may	
Dated this	day of	20	

[signature] [in the	capacity of]
Duly authorized to sign	tender for and on behalf of
Section VI. Tender Se	ecurity Form (Sample)
	y of
(hereinafter called "the	Tender'')
of	by these presents that WE
	(hereinafter called "the Bank"), are bound unto
for which payment wel	l and truly to be made to the said Procuring entity, the Bank binds itself, its by these presents. Sealed with the Common Seal of the said Bank this
THE CONDITIONS of	this obligation are:
1. If the tenderer tenderer on the Tender	withdraws its Tender during the period of tender validity specified by the Form; or
2. If the tenderer, during the period of ter	having been notified of the acceptance of its Tender by the Procuring entity der validity:
	to execute the Contract Form, if required; or
(b) Fails or refuses tenderers;	to furnish the performance security, in accordance with the Instructions to
demand, without the Pr the Procuring entity wi	the Procuring entity up to the above amount upon receipt of its first written occuring entity having to substantiate its demand, provided that in its demand II note that the amount claimed by it is due to it, owing to the occurrence of conditions, specifying the occurred condition or conditions.
_	nain in force up to and including thirty (30) days after the period of tender and in respect thereof should reach the Bank not later than the day of

[Signature of the bank]

Section VII. Contract Form

THIS	AGREEMENT made the	day of	20	between	[name of
Procu	ring entity") of the one part a ountry of tenderer] (Hereinaf	and	[N	lame of tendere	r] of[city
	REAS the Procuring entity in				1 1 4 4 1
	[Bi				
price	in words and figures](Herein	after called "the	Contract Price	e").	[Comraci
NOW	THIS AGREEMENT WITN	SESSETH AS FO	OLLOWS:		
1.	In this Agreement words a	_		ame meanings	as are respectively
assign	ned to them in the Conditions	of Contract refe	rred to.		
2.	The following documents	shall be deemed	to form and be	e read and const	rued as part of this
_	ement, viz.:				
(a)	The Tender Form and the l		ubmitted by th	e tenderer;	
(b)	The Schedule of Requirem				
(c)	The Congress Conditions of				
(d)	The General Conditions of The Special Conditions of				
(e) (f)	The Procuring entity's Not		rd		
(g)	The Performance Bond,	inication of riwa	iru,		
(h)	Minutes of discussions rec	orded prior to co	ontract award.		
	In consideration of the pay nafter mentioned, the tenderer o remedy defects therein in co	hereby covenar	its with the Pro	ocuring entity to	provide the goods
_	The Procuring entity hereboods and the remedying of dele under the provisions of the	efects therein, the	e Contract Pric	e or such other	sum as may become
	ITNESS whereof the parties labeled their respective laws the day a		_	nent to be execu	ated in accordance
Signe	d, sealed, delivered by th	ne (for	the Procuring	entity)	
Signe	d, sealed, delivered by th	ne (for the te	enderer)		
In the	presence of	-			

Section VIII. Performance Security Form

To:			
WHEREAS(Hereinafter called "the tenderer") has [reference number of the contract] das supply	s undertaken, in potent	ursuance _ 20	of Contract No
[Description of goods](Hereinafter ca			
AND WHEREAS it has been stipulate with a bank guarantee by a reputable lwith the Tenderer's performance obligious	bank for the sum s	specified	
AND WHEREAS we have agreed to	give the tenderer a	a guarante	ee:
demand declaring the tenderer to be in sum or sums within the limits of	d figures], and wo	e underta e Contrac	ke to pay you, upon your first written and without cavil or argument, any
[Amount of guarantee] as aforesaid, very our demand or the sum specified the		ing to pro	ove or to show grounds or reasons for
This guarantee is valid until the	_ day of	20	·
Signature and seal of the Guarantors			
Name of bank or financial institution	2]		
[Address]			
[Date]			

Section IX. Manufacturer's Authorization Form

To: [name of the Procuring entity]
WHEREAS
[Name of the Manufacturer]
Who are established and reputable manufacturers of
[name and/or description of the goods]
having factories at
[Address of factory]
Do hereby authorize.
[Name and address of Agent]
To submit a tender, and subsequently negotiate and sign the Contract with you against tender
No
[reference of the Tender]
For the above goods manufactured by us.
We hereby extend our full guarantee and warranty as per the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Tenders.
Name, Designation, signature and date
[Signature for and on behalf of Manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent specifying the items authorized.

Section X: Declaration of Undertaking

Declaration

We underscore the importance of a free, fair and competitive procurement process that precludesfraudulent use. In this respect we shall neither offer nor grant, directly or indirectly, any inadmissible advantages to any persons in connection with our bid, nor will we offer or grant any such incentives or conditions in the subsequent execution of the contract in the event that we are awarded the contract.

We also confirm that we have not been debarred from participating in Procurement proceedings by KISCOL or by any public entity.
Signature
Date
Bidder
(This Declaration shall be signed by the Officer/Manager whose credentials are provided with the
attached Power of Attorney)

Section XI.Tender Questionnaire

PART I: CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give particulars indicated in Part1 and either Part 2(a), 2(b) or 2(c) whichever applies to your type of business.

You are advised that it is a firm which gives false information on this Form might face immediate disqualification and be debarred from participating in KISCOL tenders.

Part 1-General			
Business Name			
Registration Ref No			
Location of business p	remises, i.e. Building	g	
	Floor	r NoRoom No	D
Plot No		Street/Road	
Postal Address		Postal Code	
Tel No		Fax No	
Email		Website	
Nature of business			
VAT Certificate Numb	er	PIN Certificate No	
Tax Compliance Certif	ficate No	Expiry Date	
Local Authority or Cur	rrent Trade License N	NoExpiry Date	•••••
Certificate, Tax Comp	liance Certificate and	ate, Trade License, and VAT Registra d Local Authority License. handle at any one time Kshs	
Name of your Bankers		Branch	
Part 2 (a) Sole Propri	ietor:		
Names in full		Age	
Nationality	ID/Passpor	t NoCountry of Ori	gin
Part 2(b) Partnership)		
Name	Nationality	*Citizenship Details	shares
1		······	
2			
3			
4			

5			
Part 2(c) R	Registered Company		
State wheth	ner Private or Public		
State the no	ominal and issued Capital of the	e Company	
	-	Or Other Convertible currency	
Issued Ksh	s	Or Other Convertible currency	
Give Detail	Is of all Directors as follows:		
Name	Nationality	*Citizenship Details	Shares
1			
2			
3			
4			
5			
Part 3- Na	mes of all Associated or Hold	ling Companies (If any)	
		8 - 1 P	
		give the information on a separate	
II IIIOIE COI	ilpanies are applicable, please g	give the information on a separate	slicet of paper.
D4 4 C	: D-4-:1	4b - Carran - 1 - 1 - 1 - 1 - 1 - 1 - 1	- h
		the Companies you have listed a	
*If Kenyan	Citizen, indicate under "Citize	enship Details", whether by Birth,	Naturalization or
Registration	n.		
Part 5–	Volume of husiness transacted	d between KISCOL and my comp	nany during the last 12
	months, if any;Kshs		

Part 6		usiness transacted with o	other similar organizations during the last12 months (Attach proof)			
Part 7	Work performed as a contractor of similar nature and volume over the last five years. details of contracts under way or committed, including expected completion date.					
Client Name		Name of Client Contact Person	Type of services provided and year of completion	Value of Contract		
Part 8	C	,	any's manufacturing capac			
Part 9	required to supply this Information on behalf of the manufacturers they represent) How does the company handle customer complaints and product service request?					
Part 10	Please attach a detailed account of the current quality assurance system in your company for example a copy of your Quality Assurance Manual.					
Part 11	Please provide details of on-site quality control facilities and services and range of test conducted.					
Part 12	Please indicate other payment terms and/ or incentives you are willing to offer to KISCOL, including but not limited to early payment incentives					
Part 13 –	State whether or not you have experienced any problem(s) of non-performance with any contract(s) awarded to you during the last 12 months and give a brief explanation/description of the problem(s). Please give the information on a separate sheet of paper.					
Part 14 –	Give any other	r information relating to y	our company which you n	nay consider relevant to		
	your bid to d	lo business with KISCOL				

PART II: PERSONNEL

Please enclose copy of the organization chart of the firm indicating the main fields of activity for each position.

Plea	ase provide the following	information for the key	personnel proposed for admini	stration of this		
Cor	ntract.					
1.	Name					
2.	Age					
3.	Academic Qualification					
4.	Professional Qualification	on				
5.	Work Experience					
6.	Length of service with t	he firm and position hel	d			
7.	Please attach detailed C	-				
PΔ	RT III: FINANCIAL P	•				
2. Summary of quick assets and current liabilities as of						
Total Cash						
	Name of Bank Institution	Location	Deposit in Name of	Amount		
	i. ii.					
	iii.					
	111.					

3. Deposit with Bids or as guarantees (State details)

			•••••		••••••	•••••		
			••••••	••••••	••••••	•••••		
	Deposited With	Name & Address	Purp	oose	Date of Recover		Amount	
	i.				Recov	<u> </u>		
	ii.							
	iii.							
	iv.							
	4. Due from complet (Amount receivable	ed contracts within 90 days, exclu	de clai	ims not appro	oved)			
		Name and address of Owner			m	Amount Receivable		
	i. ii.							
	iii.							
	iv.							
	v. vi.							
	vii.							
	viii.							
	ix.							
	X.							
	ach Letters of Reference		rs rega	arding the firm	m's credit	position	n	
	ME OF APPLICANT'S ST TWELVE MONTHS		ND V.	ALUES OF C	CONTRA	.CT/ORI	DERS IN	
1.	First Client (Organi	zation)						
i)	Name of 1 st client (Org	anization)						
ii)	Address of Client (Orga							
iii)	Telephone No. of Clier	nt		•••••				
iv)	Facsimile No of Client							
v)	E-mail Address of Clie	nt						

vi)	Name of Contact Person at the Client (Organization)
vii)	Value of Contracts/Orders
viii)	Duration of ongoing Contracts/Orders
2.	Second Client (Organization)
i)	Name of client (Organization)
ii)	Address of Client (Organization)
iii)	Telephone No. of Client
iv)	Facsimile No of Client
v)	E-mail Address of Client
vi)	Name of Contact Person at the Client (Organization)
vii)	Value of Contracts/Orders
viii)	Duration of Contracts/Orders
3.	Third Client (organization)
i)	Name of client (Organization)
ii)	Address of Client (Organization)
iii)	Telephone No. of Client
iv)	Facsimile No of Client
v)	E-mail Address of Client
vi)	Name of Contact Person at the Client (Organization)
vii)	Value of Contracts/Orders
viii)	Duration of Contracts/Orders
4.	Fourth Client (organization)
i)	Name of client (Organization)
ii)	Address of Client (Organization)
iii)	Telephone No. of Client
iv)	Facsimile No of Client
v)	E-mail Address of Client
vi)	Name of Contact Person at the Client (Organization)
vii)	Value of Contracts/Orders
viii)	Duration of Contracts/Orders
5.	Fifth Client (organization)
i)	Name of client (Organization)

ii) Address of Client (Organization)				
iii) Telephone No. of Client				
iv) Facsimile No of Client				
v) E-mail Address of Client				
vi) Name of Contact Person at the Client (Organization)				
vii) Value of Contracts/Orders				
viii) Duration of Contracts/Orders				
(NB: You may include additional large clients as you may wish to support your application)				
PART VI: DECLARATION				
I contifue that all the above monticulars one time				
I certify that all the above particulars are true				
Name of Applicant (Officer)				
Signature of Applicant				
Position in the Company/Title				
Date				
NB: Please affix rubber stamp or seal				
(This Declaration shall be signed by the Officer/Manager whose credentials are provided with the				

attached Power of Attorney).