



REHABILITATION OF PASSENGER BOARDING BRIDGES AT MOI INTERNATIONAL AIRPORT

TENDER NO. KAA/OT/MIA/I528/2018-2019

JUNE 2019

MANAGING DIRECTOR
KENYA AIRPORTS AUTHORITY
P.O. BOX 19001 - 00501
NAIROBI

GENERAL MANAGER (P&ES)
KENYA AIRPORTS AUTHORITY
P.O. BOX 19001 - 00501
NAIROBI

TABLE OF CONTENTS

	<u>PAGE</u>
SECTION I: INVITATION FOR TENDERS.....	3
SECTION II: INSTRUCTIONS TO TENDERERS.....	5
SECTION III: APPENDIX TO INSTRUCTIONS TO TENDERERS	23
SECTION IV: CONDITIONS OF CONTRACT (INCLUDING ERECTION ON SITE)	31
SECTION V: TECHNICAL SPECIFICATIONS.....	39
SECTION VI: DRAWINGS.....	63
SECTION VII: BILLS OF QUANTITIES	64
SECTION VIII: STANDARD FORMS	81

SECTION I: INVITATION FOR TENDERS

4th June 2019

Tender No.: KAA/OT/MIA/1528/2018-2019

Tender Name: Rehabilitation of Passenger Boarding Bridges at Moi International Airport

1. Kenya Airports Authority invites sealed bids from eligible Tenderers for Rehabilitation of Passenger Boarding Bridges at Moi International Airport
2. Interested eligible firms may obtain further information and inspect the tender documents at the Kenya Airports Authority Headquarters at JKIA, 2nd Floor, office of the GM (Procurement & Logistics) from **8.00 am to 5.00 pm** local time, Monday to Friday except lunch time between **1.00 pm and 2.00 pm** and on public holidays.
3. A complete set of tender documents in English language may be obtained by interested candidates upon payment of non-refundable fees of Kenya Shillings One Thousand Only (Kshs. 1,000/-) or an equivalent amount in freely convertible currency in cash or Bankers cheque payable to the Managing Director, Kenya Airports Authority. However, the tender document can also be downloaded from Kenya Airports Authority website (www.kaa.go.ke) or Procurement Information Portal at www.ppip.go.ke free of charge and thereafter bidders can forward their company's details to tenders@kaa.go.ke.
4. A site visit and pre-tender meeting shall be conducted on **13th June 2019** starting from 10:00am at the Airport Manager's conference room Moi International Airport and from 10:00am.
5. Prices quoted should be net inclusive of all taxes and delivery costs, must be in Kenya Shillings or an amount in a freely convertible currency and shall remain valid one hundred and twenty (120) days from the tender submission deadline.
6. Completed tender documents serialized from the first to the last page including all the attachments are to be enclosed in plain sealed envelopes marked with Tender Reference Name and number and be deposited in the Tender Box at Kenya Airports Authority Headquarters building, 2nd floor, Airport North Road, or be addressed to:-

**The Managing Director,
Kenya Airports Authority,
Kenya Airports Authority Headquarters Building,
Airport North Road,
P. O. Box 19001-00501,
NAIROBI.
Email: tenders@kaa.go.ke**

so as to be received on or before **20th June 2019 at 11.00 am.**

7. Tenders will be opened immediately after the deadline of tender submission in the presence of the Candidates or their representatives who choose to attend at the Conference room on 1st Floor, Kenya Airports Authority Headquarters Complex building, Airport North Road.
8. A tender security in the form and amount specified in the tender document must accompany the tenders.
9. Any additional information, addendums or clarifications in respect to this tender will be available in our KAA website www.kaa.go.ke. All bidders are advised to regularly check the website during the bidding period.
10. Canvassing for the tender by the tenderer or by proxy shall lead to automatic disqualification of their tender.

GM (PROCUREMENT & LOGISTICS)
FOR: MANAGING DIRECTOR/CEO

SECTION II: INSTRUCTIONS TO TENDERERS

TABLE OF CLAUSES

<u>CLAUSE NUMBERS</u>	<u>PAGE</u>
GENERAL	
1. DEFINITIONS	7
2. ELIGIBILITY AND QUALIFICATION REQUIREMENTS.....	7
3. COST OF TENDERING.....	9
4. SITE VISIT	9
TENDER DOCUMENTS	
5. TENDER DOCUMENTS	9
6. INQUIRIES BY TENDERERS.....	10
7. AMENDMENT OF TENDER DOCUMENTS.....	11
PREPARATION OF TENDERS	
8. LANGUAGE OF TENDER	11
9. DOCUMENTS COMPRISING THE TENDER	11
10. TENDER PRICES.....	11
11. CURRENCIES OF TENDER AND PAYMENT	12
12. TENDER VALIDITY.....	13
13. TENDER SECURITY	13
14. NO ALTERNATIVE OFFERS.....	14
15. PRE-TENDER MEETING	14
16. FORMAT AND SIGNING OF TENDERS.....	15
SUBMISSION OF TENDERS	
17. SEALING AND MARKING OF TENDERS.....	15
18. DEADLINE FOR SUBMISSION OF TENDERS.....	16
19. MODIFICATION AND WITHDRAWAL OF TENDERS.....	16
TENDER OPENING AND EVALUATION	

20. TENDER OPENING.....	17
21. PROCESS TO BE CONFIDENTIAL.....	17
22. CLARIFICATION TENDERS.....	17
23. DETERMINATION OF RESPONSIVENESS.....	18
24. CORRECTION OF ERRORS.....	18
25. CONVERSION TO SINGLE CURRENCY.....	19
26. EVALUATION AND COMPARISON OF TENDERS.....	19
27. PREFERENCE IN EVALUATION.....	20
AWARD OF CONTRACT	
28. AWARD CRITERIA.....	20
29. NOTIFICATION OF AWARD AND SIGNING OF CONTRACT.....	20
30. PERFORMANCE GUARANTEE.....	21
31. ADVANCE PAYMENT.....	21
32. CORRUPT AND FRAUDULENT PRACTICES.....	21

GENERAL

I. Definitions

- (a) **“Tenderer”** means any person or persons partnership firm or company submitting a sum or sums in the Bills of Quantities in accordance with the Instructions to Tenderers, Conditions of Contract Parts I and II, Specifications, Drawings and Bills of Quantities for the work contemplated, acting directly or through a legally appointed representative.
- (b) **“Approved tenderer”** means the tenderer who is approved by the Employer.
- (c) Any noun or adjective derived from the word **“tender”** shall be read and construed to mean the corresponding form of the noun or adjective **“bid”**. Any conjugation of the verb “tender” shall be read and construed to mean the corresponding form of the verb “bid.”
- (d) **“Employer”** means a Central Government Ministry, Local Authority, State Corporation or any other Public Institution.

2. Eligibility and Qualification Requirements

- 2.1 This invitation to tender is open to all tenderers who are eligible as stated in the appendix.
- 2.2 The procuring entity’s employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.
- 2.3 To be qualified for award of Contract, the tenderer shall provide evidence satisfactory to the Employer of their eligibility under Sub clause 2.1 above and of their capability and adequacy of resources to effectively carry out the subject Contract. To this end, the tenderer shall be required to update the following information already submitted during prequalification:-
 - (a) Details of experience and past performance of the tenderer on the works of a similar nature within the past five years and details of current work on hand and other contractual commitments.
 - (b) The qualifications and experience of key personnel proposed for administration and execution of the contract, both on and off site.
 - (c) Major items of construction plant and equipment proposed for use in carrying out the Contract. Only reliable plant in good working order and suitable for the work required of it shall be shown on this schedule. The tenderer will also indicate on this schedule when each item will be available on the Works. Included also should be a schedule of plant, equipment and material to be imported for the purpose of the

Contract, giving details of make, type, origin and CIF value as appropriate.

- (d) Details of subcontractors to whom it is proposed to sublet any portion of the Contract and for whom authority will be requested for such subletting in accordance with clause 4 of the Conditions of Contract.
- (e) A draft Program of Works in the form of a bar chart and Schedule of Payment which shall form part of the Contract if the tender is accepted. Any change in the Program or Schedule shall be subjected to the approval of the Engineer.
- (f) Details of any current litigation or arbitration proceedings in which the Tenderer is involved as one of the parties.

2.4 Joint Ventures

Tenders submitted by a joint venture of two or more firms as partners shall comply with the following requirements:-

- (a) The tender, and in case of a successful tender, the Form of Agreement, shall be signed so as to be legally binding on all partners.
- (b) One of the partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners.
- (c) The partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the Contract including payment shall be done exclusively with the partner in charge.
- (d) All partners of the joint venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under (b) above as well as in the Form of Tender and the Form of Agreement (in case of a successful tender).
- (e) A copy of the agreement entered into by the joint venture partners shall be submitted with the tender.

2.5 To qualify for contract awards, the tenderer shall have the following:

- (a) Necessary qualifications, capability experience, services, equipment and facilities to provide what is being procured.
- (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 be debarred from participating in public procurement.

3. Cost of Tendering

- 3.1 The tenderer shall bear all costs associated with the preparation and submission of his tender and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.
- 3.2 The price to be charged for the tender document shall not exceed Kshs.1,000/=
- 3.3 The procuring entity shall allow the tenderer to view the tender document free of charge before purchase.

4. Site Visit

- 4.1 The tenderer is advised to visit and examine the Site and its surroundings and obtain for himself on his own responsibility, all information that may be necessary for preparing the tender and entering into a contract. The costs of visiting the Site shall be the tenderer's own responsibility.
- 4.2 The tenderer and any of his personnel or agents will be granted permission by the Employer to enter upon premises and lands for the purpose of such inspection, but only upon the express condition that the tenderer, his personnel or agents, will release and indemnify the Employer from and against all liability in respect of, and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expenses however caused, which but for the exercise of such permission, would not have arisen.
- 4.3 The Employer shall organize a site visit at a date to be notified. A representative of the Employer will be available to meet the intending tenderers at the Site.

Tenderers must provide their own transport. The representative will not be available at any other time for site inspection visits.

Each tenderer shall complete the Certificate of Tenderer's Visit to the Site, whether he in fact visits the Site at the time of the organized site visit or by himself at some other time.

TENDER DOCUMENTS

5. Tender Documents

- 5.1 The Tender documents comprise the documents listed here below and should be read together with any Addenda issued in accordance with Clause 7 of these instructions to tenderers.
 - a. Form of Invitation for Tenders

- b. Instructions to Tenderers
- c. Form of Tender
- d. Appendix to Form of Tender
- e. Form of Tender Surety
- f. Statement of Foreign Currency Requirements
- g. Form of Performance Security
- h. Form of Agreement
- i. Form of Advance payment Bank Guarantee
- j. Schedules of Supplementary Information
- k. General Conditions of Contract – Part I
- l. Conditions of Particular Application – Part II
- m. Specifications
- n. Bills of Quantities
- o. Drawings
- p. Declaration Form

5.2 The tenderer is expected to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the tender documents. Failure to comply with the requirements for tender submission will be at the tenderer's own risk. Pursuant to clause 22 of Instructions to Tenderers, tenders which are not substantially responsive to the requirements of the tender documents will be rejected.

5.3 All recipients of the documents for the proposed Contract for the purpose of submitting a tender (whether they submit a tender or not) shall treat the details of the documents as "private and confidential".

6. Inquiries by tenderers

6.1 A tenderer making inquiries relating to the tender documents may notify the Employer in writing or by telex, cable or facsimile at the Employer's mailing address indicated in the Invitation to Tender. The Employer will respond in writing to any request for clarification which he receives earlier than 7 days prior to the deadline for the submission of tenders. Written copies of the Employer's response (including the query but without identifying the source of the inquiry) will be sent to all prospective tenderers who have purchased the tender documents.

6.2 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.

6.3 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

7. Amendment of Tender Documents

- 7.1 At any time prior to the deadline for submission of tenders the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective tenderer, modify the tender documents by issuing Addenda.
- 7.2 Any Addendum will be notified in writing or by cable, telex or facsimile to all prospective tenderers who have purchased the tender documents and will be binding upon them.
- 7.3 In order to allow prospective tenderers reasonable time in which to take the Addendum into account in preparing their tenders, the Employer may, at his discretion, extend the deadline for the submission of tenders.

PREPARATION OF TENDERS

8. Language of Tender

- 8.1 The tender and all correspondence and documents relating to the tender exchanged between the tenderer and the Employer shall be written in the English language. Supporting documents and printed literature furnished by the tenderer with the tender may be in another language provided they are accompanied by an appropriate translation of pertinent passages in the above stated language. For the purpose of interpretation of the tender, the English language shall prevail.

9. Documents Comprising the Tender

- 9.1 The tender to be prepared by the tenderer shall comprise:-
 - i. The form of tender and appendix thereto.
 - ii. A tender security.
 - iii. The priced Bill of Quantity and Schedule.
 - iv. The information on eligibility and qualification.
 - v. Any other materials required to be completed and submitted in accordance with the instructions to tenderers.

The Forms, Bills of Quantities and Schedules provided in the tender documents shall be used without exception (subject to extensions of the schedules in the same format and to the provisions of clause 13.2 regarding the alternative forms of Tender Surety).

10. Tender Prices

- 10.1 All the insertions made by the tenderer shall be made in INK and the tenderer shall clearly form the figures. The relevant space in the Form of Tender and Bills of Quantities shall be completed accordingly without interlineations or

erasures except those necessary to correct errors made by the tenderer in which case the erasures and interlineations shall be initialed by the person or persons signing the tender.

- 10.2 A price or rate shall be inserted by the tenderer for every item in the Bills of Quantities whether the quantities are stated or not. Items against which no rate or price is entered by the tenderer will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bills of Quantities.

The prices and unit rates in the Bills of Quantities are to be the full [all-inclusive] value of the work described under the items, including all costs and expenses which may be necessary and all general risks, liabilities and obligations set forth or implied in the documents on which the tender is based. All duties and taxes and other levies payable by the Contractor under the Contract or for any other cause prior to the deadline for the submission of tenders, shall be included in the rates and prices and the total tender prices submitted by the Tenderer.

Each price or unit rate inserted in the Bills of Quantities should be a realistic estimate for completing the activity or activities described under that particular item and the tenderer is advised against inserting a price or rate against any item contrary to this instruction.

Every rate entered in the Bills of Quantities, whether or not such rate be associated with a quantity, shall form part of the Contract. The Employer shall have the right to call for any item of work contained in the Bills of Quantities, and such items of work to be paid for at the rate entered by the tenderer and it is the intention of the Employer to take full advantage of unbalanced low rates.

- 10.3 Unless otherwise specified the tenderer must enter the amounts representing 10% of the sub-total of the summary of the Bills of Quantities for Contingencies and Variation of Prices [V.O.P.] payments in the summary sheet and add them to the sub-total to arrive at the tender amount.
- 10.4 The tenderer shall furnish with his tender written confirmation from his suppliers or manufacturers of unit rates for the supply of items listed in the Conditions of Contract clause 47 where appropriate.
- 10.5 The rates and prices quoted by the tenderer are subject to adjustment during the performance of the Contract only in accordance with the provisions of the Conditions of Contract. The tenderer shall complete the schedule of basic rates and shall submit with his tender such other supporting information as required under clause 47 of the Conditions of Contract Part II.

11. Currencies of Tender and Payment

- 11.1 Tenders shall be priced in Kenya Shillings and the tender sum shall be in Kenya Shillings.

- 11.2 Tenderers are required to indicate in the Statement of Foreign Currency Requirements, which forms part of the tender, the foreign currency required by them. Such currency should generally be the currency of the country of the tenderer's main office. However, if a substantial portion of the tenderer's expenditure under the Contract is expected to be in countries other than his country of origin, then he may state a corresponding portion of the contract price in the currency of those other countries. However, the foreign currency element is to be limited to two (2) different currencies and a maximum of 30% (thirty percent) of the Contract Price.
- 11.3 The rate or rates of exchange used for pricing the tender shall be selling rate or rates of the Central Bank ruling on the date thirty (30) days before the final date for the submission of tenders.
- 11.4 Tenderers must enclose with their tenders, a brief justification of the foreign currency requirements stated in their tenders.

12. Tender Validity

- 12.1 The tender shall remain valid and open for acceptance for a period of sixty (60) days from the specified date of tender opening or from the extended date of tender opening (in accordance with clause 7.4 here above) whichever is the later.
- 12.2 In exceptional circumstances prior to expiry of the original tender validity period, the Employer may request the tenderer for a specified extension of the period of validity. The request and the responses thereto shall be made in writing or by cable, telex or facsimile. A tenderer may refuse the request without forfeiting his Tender Surety. A tenderer agreeing to the request will not be required nor permitted to modify his tender, but will be required to extend the validity of his Tender Surety correspondingly.

13. Tender Security

- 13.1 The tenderer shall furnish as part of his tender, a Tender Security in the amount and form stated in the Appendix to Instructions to Tenderers.
- 13.2 The tender security shall not exceed 2 percent of the tender price.
- 13.3 The tender security shall be valid for at least thirty (30) days beyond the tender validity period.

The format of the Surety shall be in accordance with the sample form of Tender Surety included in these tender documents; other formats may be permitted subject to the prior approval of the Employer. The Tender Surety shall be valid for thirty (30) days beyond the tender validity period.

- 13.4 Any tender not accompanied by an acceptable Tender Surety will be rejected by the Employer as non-responsive.

- 13.5 The Tender Sureties of unsuccessful tenderers will be returned as promptly as possible, but not later than fourteen (14) days after concluding the Contract execution and after a Performance Security has been furnished by the successful tenderer. The Tender Surety of the successful tenderer will be returned upon the tenderer executing the Contract and furnishing the required Performance Security.
- 13.6 The Tender Surety may be forfeited:
- (a) if a tenderer withdraws his tender during the period of tender validity:
or
 - (b) in the case of a successful tenderer, if he fails
 - (i) to sign the Agreement, or
 - (ii) to furnish the necessary Performance Security
 - (c) if a tenderer does not accept the correction of his tender price pursuant to clause 23.

14. No Alternative Offers

- 14.1 The tenderer shall submit an offer which complies fully with the requirements of the tender documents unless otherwise provided for in the appendix.

Only one tender may be submitted by each tenderer either by himself or as partner in a joint venture.

- 14.2 The tenderer shall not attach any conditions of his own to his tender. The tender price must be based on the tender documents. The tenderer is not required to present alternative construction options and he shall use without exception, the Bills of Quantities as provided, with the amendments as notified in tender notices, if any, for the calculation of his tender price.

Any tenderer who fails to comply with this clause will be disqualified.

15. Pre-Tender Meeting

- 15.1 If a pre tender meeting is convened the tenderer's designated representative is invited to attend a pre-tender meeting, which if convened, will take place at the venue and time stated in the Invitation to Tender. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 15.2 The tenderer is requested as far as possible to submit any questions in writing or by cable, to reach the Employer not later than seven days before the meeting. It may not be practicable at the meeting to answer questions received

late, but questions and responses will be transmitted in accordance with the following:

- (a) Minutes of the meeting, including the text of the questions raised and the responses given together with any responses prepared after the meeting will be transmitted without delay to all purchasers of the tender documents. Any modification of the tender documents listed in – Clause 9 which may become necessary as a result of the pre-tender meeting shall be made by the Employer exclusively through the issue of a tender notice pursuant to Clause 7 and not through the minutes of the pre-tender meeting.
- (b) Non attendance at the pre-tender meeting will not be cause for disqualification of a bidder.

16. Format and Signing of Tenders

- 16.1 The tenderer shall prepare his tender as outlined in clause 9 above and mark appropriately one set “ORIGINAL” and the other “COPY”.
- 16.2 The copy of the tender and Bills of Quantities shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the tenderer. All pages of the tender where amendments have been made shall be initialed by the person or persons signing the tender.
- 16.3 The complete tender shall be without alterations, interlineations or erasures, except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

SUBMISSION OF TENDERS

17. Sealing and Marking of Tenders

- 17.1 The tenderer shall seal the original and copy of the tender in separated envelopes, duly marking the envelopes as “ORIGINAL” and “COPY”. The envelopes shall then be sealed in an outer envelope.
- 17.2 The inner and outer envelopes shall be addressed to the Employer at the address stated in the Appendix to Instructions to Tenderers and bear the name and identification of the Contract stated in the said Appendix with a warning not to open before the date and time for opening of tenders stated in the said Appendix.
- 17.3 The inner envelopes shall each indicated the name and address of the tenderer to enable the tender to be returned unopened in case it is declared “late”, while the outer envelope shall bear no mark indicating the identity of the tenderer.
- 17.4 If the outer envelope is not sealed and marked as instructed above, the Employer will assume no responsibility for the misplacement or premature

opening of the tender. A tender opened prematurely for this cause will be rejected by the Employer and returned to the tenderer.

18. Deadline for Submission of Tenders

- 18.1 Tenders must be received by the Employer at the address specified in clause 17.2 and on the date and time specified in the Letter of Invitation, subject to the provisions of clause 7.4, 18.2 and 18.3.

Tenders delivered by hand must be placed in the “tender box” provided in the office of the Employer.

Proof of posting will not be accepted as proof of delivery and any tender delivered after the above stipulated time, from whatever cause arising will not be considered.

- 18.2 The Employer may, at his discretion, extend the deadline for the submission of tenders through the issue of an Addendum in accordance with clause 7, in which case all rights and obligations of the Employer and the tenderers previously subject to the original deadline shall thereafter be subject to the new deadline as extended.
- 18.3 Any tender received by the Employer after the prescribed deadline for submission of tender will be returned unopened to the tenderer.

19. Modification and Withdrawal of Tenders

- 19.1 The tenderer may modify or withdraw his tender after tender submission, provided that written notice of the modification or withdrawal is received by the Employer prior to prescribed deadline for submission of tenders.
- 19.2 The tenderer’s modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions for the submission of tenders, with the inner and outer envelopes additionally marked “MODIFICATION” or “WITHDRAWAL” as appropriate.
- 19.3 No tender may be modified subsequent to the deadline for submission of tenders.
- 19.4 No tender may be withdrawn in the interval between the deadline for submission of tenders and the period of tender validity specified on the tender form. Withdrawal of a tender during this interval will result in the forfeiture of the Tender Surety.
- 19.5 Subsequent to the expiration of the period of tender validity prescribed by the Employer, and the tenderer having not been notified by the Employer of the award of the Contract or the tenderer does not intend to conform with the request of the Employer to extend the prior of tender validity, the tenderer may withdraw his tender without risk of forfeiture of the Tender Surety.

TENDER OPENING AND EVALUATION

20. Tender Opening

- 20.1 The Employer will open the tenders in the presence of the tenderers' representatives who choose to attend at the time and location indicated in the Letter of Invitation to Tender. The tenderers' representatives who are present shall sign a register evidencing their attendance.
- 20.2 Tenders for which an acceptable notice of withdrawal has been submitted, pursuant to clause 19, will not be opened. The Employer will examine the tenders to determine whether they are complete, whether the requisite Tender Sureties have been furnished, whether the documents have been properly signed and whether the tenders are generally in order.
- 20.3 At the tender opening, the Employer will announce the tenderer's names, total tender price, tender price modifications and tender withdrawals, if any, the presence of the requisite Tender Surety and such other details as the Employer, at his discretion, may consider appropriate. No tender shall be rejected at the tender opening except for late tenders.
- 20.4 The Employer shall prepare a tender opening register and minutes of the tender opening including the information disclosed to those present.
- 20.5 Tenders not opened and read out at tender opening shall not be considered further for evaluation, irrespective of the circumstances.

21. Process to be Confidential

- 21.1 After the public opening of tenders, information relating to the examination, clarification, evaluation and comparisons of tenders and recommendations concerning the award of Contract shall not be disclosed to tenderers or other persons not officially concerned with such process until the award of Contract is announced.
- 21.2 Any effort by a tenderer to influence the Employer in the process of examination, evaluation and comparison of tenders and decisions concerning award of Contract may result in the rejection of the tenderer's tender.

22. Clarification Tenders

- 22.1 To assist in the examination, evaluation and comparison of tenders, the Employer may ask tenderers individually for clarification of their tenders, including breakdown of unit prices. The request for clarification and the response shall be in writing or by cable, facsimile or telex, but no change in the price or substance of the tender shall be sought, offered or permitted except

as required to confirm the correction of arithmetical errors discovered by the employer during the evaluation of the tenders in accordance with clause 24.

- 22.2 No Tenderer shall contact the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. If the tenderer wishes to bring additional information to the notice of the Employer, he shall do so in writing.

23. Determination of Responsiveness

- 23.1 Prior to the detailed evaluation of tenders, the Employer will determine whether each tender is substantially responsive to the requirements of the tender documents.
- 23.2 For the purpose of this clause, a substantially responsive tender is one which conforms to all the terms, conditions and specifications of the tender documents without material deviation or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality, completion timing or administration of the Works to be undertaken by the tenderer under the Contract, or which limits in any substantial way, inconsistent with the tender documents, the Employer's rights or the tenderers obligations under the Contract and the rectification of which would affect unfairly the competitive position of other tenderers who have presented substantially responsive tenders.
- 23.3 Each price or unit rate inserted in the Bills of Quantities shall be a realistic estimate of the cost of completing the works described under the particular item including allowance for overheads, profits and the like. Should a tender be seriously unbalanced in relation to the Employer's estimate of the works to be performed under any item or groups of items, the tender shall be deemed not responsive.
- 23.4 A tender determined to be not substantially responsive will be rejected by the Employer and may not subsequently be made responsive by the tenderer by correction of the non-conforming deviation or reservation.

24. Correction of Errors

Tenders determined to be substantially responsive shall be checked by the Employer for any arithmetic errors in the computations and summations. Errors will be corrected by the Employer as follows:

- (a) Where there is a discrepancy between the amount in figures and the amount in words, the amount in words will govern.
- (b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer, there is an obvious typographical error, in which case adjustment will be made to the entry containing that error.

- (c) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and, with concurrence of the tenderer, shall be considered as binding upon the tenderer. If the tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security may be forfeited in accordance with clause 13.

25. Conversion to Single Currency

- 25.1 For compensation of tenders, the tender price shall first be broken down into the respective amounts payable in various currencies by using the selling rate or rates of the Central Bank of Kenya ruling on the date twenty one (21) days before the final date for the submission of tenders.
- 25.2 The Employer will convert the amounts in various currencies in which the tender is payable (excluding provisional sums but including Dayworks where priced competitively) to Kenya Shillings at the selling rates stated in clause 25.1.

26. Evaluation and Comparison of Tenders

- 26.1 The Employer will evaluate only tenders determined to be substantially responsive to the requirements of the tender documents in accordance with clause 23.
- 26.2 In evaluating tenders, the Employer will determine for each tender the evaluated tender price by adjusting the tender price as follows:
 - (a) Making any correction for errors pursuant to clause 24.
 - (b) Excluding Provisional Sums and provision, if any, for Contingencies in the Bills of Quantities, but including Day works where priced competitively.
- 26.3 The Employer reserves the right to accept any variation, deviation or alternative offer. Variations, deviations, alternative offers and other factors which are in excess of the requirements of the tender documents or otherwise result in the accrual of unsolicited benefits to the Employer, shall not be taken into account in tender evaluation.
- 26.4 Price adjustment provisions in the Conditions of Contract applied over the period of execution of the Contract shall not be taken into account in tender evaluation.
- 26.5 If the lowest evaluated tender is seriously unbalanced or front loaded in relation to the Employer's estimate of the items of work to be performed under the Contract, the Employer may require the tenderer to produce detailed price analyses for any or all items of the Bills of Quantities, to demonstrate the relationship between those prices, proposed construction methods and schedules. After evaluation of the price analyses, the Employer

may require that the amount of the Performance Security set forth in clause 29 be increased at the expense of the successful tenderer to a level sufficient to protect the Employer against financial loss in the event of subsequent default of the successful tenderer under the Contract.

- 26.6 Firms incorporated in Kenya where indigenous Kenyans own 51% or more of the share capital shall be allowed a 10% preferential bias provided that they do not sub-contract work valued at more than 50% of the Contract Price excluding Provisional Sums to a non-indigenous sub-contractor.
- 26.7 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 26.8 Persons not officially involved in the evaluation of tender shall not attempt in any way to influence the evaluation.

27. Preference in Evaluation

Preference where allowed in the evaluation of tenders shall not exceed 15%

AWARD OF CONTRACT

28. Award criteria

- 28.1 Subject to clause 27.2, the Employer will award the Contract to the tenderer whose tender is determined to be substantially responsive to the tender documents and who has offered the lowest evaluated tender price subject to possessing the capability and resources to effectively carry out the Contract Works.
- 28.2 The Employer reserves the right to accept or reject any tender, and to annul 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 Employer's action.

29. Notification of Award and signing of contract

- 29.1 Prior to the expiration of the period of tender validity prescribed by the Employer, the Employer will notify the successful tenderer by cable, telefax or telex and confirmed in writing by registered letter that his tender has been accepted. This letter (hereinafter and in all Contract documents called "Letter of Acceptance") shall name the sum (hereinafter and in all Contract documents called "the Contract Price") which the Employer will pay to the Contractor in consideration of the execution and completion of the Works as prescribed by the Contract.
- 29.2 Upon the furnishing of a Performance Security by the successful tenderer, the unsuccessful tenderers will promptly be notified that their tenders have been unsuccessful.

- 29.3 At the same time the employer notifies the successful tenderer that his tender has been accepted, the employer shall notify the other tenderers that their tenders have been unsuccessful.
- 29.4 Within fourteen [14] days of receipt of the form of Contract Agreement from the Employer, the successful tenderer shall sign the form and return it to the Employer together with the required Performance Security.
- 29.5 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.
- 29.6 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

30. Performance Guarantee

- 30.1 Within twenty eight [28] days of receipt of the notification of award from the Employer, the successful tenderer shall furnish the Employer with a Performance Security in an amount stated in the Appendix to Instructions to Tenderers.
- 30.2 The Performance Security to be provided by the successful tenderer shall be an unconditional Bank Guarantee issued at the tenderer's option by an established and a reputable Bank approved by the Employer and located in the Republic of Kenya and shall be divided into two elements namely, a performance security payable in foreign currencies (based upon the exchange rates determined in accordance with clause 35.4 of the Conditions of Contract) and a performance security payable in Kenya Shillings. The value of the two securities shall be in the same proportions of foreign and local currencies as requested in the form of foreign currency requirements.
- 30.3 Failure of the successful tenderer to lodge the required Performance Security shall constitute a breach of Contract and sufficient grounds for the annulment of the award and forfeiture of the Tender Security and any other remedy under the Contract the Employer may award the Contract to the next ranked tenderer.

31. Advance Payment

An advance payment, if approved by the Employer, shall be made under the Contract, if requested by the Contractor, in accordance with clause 33.1 of the Conditions of Contract. The Advance Payment Guarantee shall be denominated in the proportion and currencies named in the form of foreign currency requirements. For each currency, a separate guarantee shall be issued. The guarantee shall be issued by a bank located in the Republic of Kenya, or a foreign bank through a correspondent bank located in the Republic of Kenya, in either case subject to the approval of the Employer.

32. Corrupt and fraudulent practices.

The procuring entity requires that tenderers to observe the highest standard of ethics during the procurement process and execution of contract. A tenderer shall sign a declaration that he has not and will not be involved in corrupt or fraudulent practices.

SECTION III: APPENDIX TO INSTRUCTIONS TO TENDERERS

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

CLAUSE	
1 (d)	Employer means; Kenya Airports Authority , a State Corporation established under the Laws of Kenya.
2.1	<p>All qualified tenderers are eligible.</p> <p>Tenderers shall submit copies of original documents as a proof that they meet all the requirements of the evaluation criteria below:</p> <p>In case of Joint Venture, parties must submit required documents.</p>
2.3	No pre-qualification has been carried out for the contract. Tenderers and all parties forming Joint Ventures if applicable shall provide evidence of their eligibility as required under Sub clause 2.1, sub clauses 2.3 a, b, c, d, and e and sub clause 2.5.
2.3 (a)	Demonstration of past experience and performance: Tenderer to meet the requirements indicated in the evaluation criteria below.
2.3 (b)	Qualifications and experience of key personnel: Tenderer to meet the requirements indicated in the evaluation criteria below.
2.3 (d)	<p>Details of subcontractors to whom it may be proposed to sublet any portion of the Contract and for whom authority will be requested for such subletting in accordance with clause 4 of the Conditions of Contract.</p> <p>In the case of foreign tenderers (tenderer not doing business within Kenya), the tenderer shall be represented by an Agent in Kenya equipped, and able to carry out the Tenderer's maintenance and repair obligations prescribed in the Conditions of Contract and/or Technical Specifications. Details, qualifications and experience of the agent shall be submitted in the tender.</p>

CLAUSE	
2.3 (e)	<p>Tenderer shall submit a detailed draft Program of Works in the form of a bar chart or another suitable form and Schedule of Payment which shall form part of the Contract if the tender is accepted.</p> <p>Sub clause is applicable.</p>
2.3 (f)	<p>Tenderer shall submit details of any current litigation or arbitration proceedings current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount in the form provided.</p> <p>In case of Joint Ventures, each party in the joint venture MUST submit information regarding any litigation or arbitration proceedings.</p> <p>Where there are no such proceedings, tender and each party Joint Ventures MUST declare.</p>
2.5 (a)	<p>Tenderer’s financial capability: Tenderer to meet the requirements indicated in the evaluation criteria below.</p>
3.2	<p>Tender documents shall be obtained at a cost of the amount indicated in the Invitation for Tenders. Tender documents may also be downloaded from the KAA website (http://www.kaa.go.ke) or from Public Procurement Information Portal at www.ppip.go.ke free of charge and thereafter bidders must forward their company’s details to tenders@kaa.go.ke</p>
4.3	<p>Site visit and shall be convened on 13th June 2019 at 10:00a.m. at Moi International Airport. Tenderers are required to attend the site visit to confirm any requirements that may affect their financial offer.</p>
6.1	<p>The name and address of the Employer for the purposes of making inquiries by tenderers is:-</p> <p style="text-align: center;">General Manager Procurement and Logistics, Kenya Airports Authority, P. O. Box 19001 – 00501, NAIROBI-KENYA. Email: tenders@kaa.go.ke</p>
10.5	<p>Prices shall be fixed.</p>
11.3	<p>Replace words “thirty (30)” with words “twenty one (21)”, however for purposes of evaluation the rate of exchange to be used is that ruling on the date of tender submission.</p>

CLAUSE	
12.1	Replace words; “ sixty (60) ” with words “ one hundred and twenty (120) ”
15.2 (b)	Non-attendance at the pre-tender meeting will be cause for disqualification of a Tenderer.
13.1 and 13.2	<p>The tender security shall be of amount indicated in the evaluation criteria below and shall be in the form of</p> <ul style="list-style-type: none"> a. cash or banker’s cheque, or b. a bank guarantee, or c. guarantee issued by a reputable insurance company approved by Public Procurement Regulatory Authority (PPOA) or d. letter of credit <p>The tender security shall be valid for at least thirty (30) days beyond the tender validity period i.e 150 days from the date of tender closing.</p>
17.2	<p>The name and address of the Employer for the purposes of submission of tenders is:-</p> <p style="text-align: center;">Kenya Airports Authority, 3rd floor, Kenya Airports Authority Headquarters, Airport North Road, P. O. Box 19001 – 00501 NAIROBI-KENYA tenders@kaa.go.ke</p>
17.2	<p>The name and identification of the contract is:</p> <p style="text-align: center;">Rehabilitation of Passenger Boarding Bridges at Moi International Airport</p> <p>The Tender Number is:</p> <p style="text-align: center;">KAA/OT/MIA/1528/2018-2019</p>
18.1	<p>Paragraph I;</p> <p>Replace words “subject to the provisions of clause 7.4, 18.2 and 18.3” with “subject to the provisions of clause 18.2, 18.3 and Appendix to Instructions to Tenderers”</p>

CLAUSE	
26.2	The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be subject of correction, adjustment or amendment in any way by any person or entity as provided under Section 82 of The Public Procurement and Asset Disposal Act, 2015.
29	<p>Performance Security</p> <p>Performance security shall be valued at 10% of the total contract price, in the format provided and shall be in form of;</p> <ul style="list-style-type: none"> a) Cash or b) Banker's cheque or c) A bank guarantee or d) Such insurance guarantee approved by the Authority. The insurance policy number must be provided or e) Letter of credit.
31	No advance payment shall be made.

SECTION IV: EVALUATION CRITERIA

Based on the information contained in the Instructions to Tenderers and the appendix thereof, the following will be the evaluation criteria for determination of responsive tenderer leading to award of the contract:

I. Preliminary Evaluation

Tenderers, including all parties of a Joint Venture, shall **submit copies of all** the following documents with the tender:

- i. Tender security of the amount of **Kshs.1,000,000.00**
- ii. Registration/Incorporation of the tenderer (*in case of a joint venture, all parties must submit*).
- iii. A valid current KRA tax compliance certificate which shall be valid at the time of tender opening (in case of a joint venture, all parties must submit).
- iv. Duly completed Form of Tender in the format of the attached form.
- v. Duly completed site visit certificate in the format provided.
- vi. Duly completed self-declaration form in the format provided (in case of a joint venture, all parties must submit).
- vii. Duly filled Confidential Business Questionnaire Provide details of Company's Director's and attach copies of their national identification cards or passports)
- viii. Copy of current CR12. Where one or more of the shareholders is a company (beneficial ownership), the CR12 of such a company shall be provided
- ix. Submission of a valid registration certificate issued by the National Construction Authority (NCA) for category NCA5 for Electrical/Mechanical Engineering Services.
- x. Copy of valid business permit.

NB: FAILURE TO SUBMIT ANY OF THE ABOVE DOCUMENTS WILL LEAD TO AUTOMATIC DISQUALIFICATION FROM FURTHER EVALUATION

2. Technical Evaluation

Compliance with the following technical requirements:

Criteria
<p>A. Demonstration of past experience and performance (Clause 2.3a)</p> <p>Tenderer and at least one party in a Joint Venture shall demonstrate participation as contractor, management contractor or subcontractor, in at least two (2) similar contracts within the past four years (2015, 2016, 2017 and 2018) and both with an average value of at least Kenya Shillings fifty million [Kshs.50,000,000], that have been successfully or substantially completed at no less than 70% complete and that are similar to the proposed works. Evidence will be in the form of LPOs, contract, completion certificate or interim certificate.</p> <p>NB:</p> <ul style="list-style-type: none">(i) <i>The similarity for specific experience shall be based on the physical size, complexity, methods/technology or other characteristics as described in the technical specifications</i>(ii) <i>Bidders and Joint Venture parties must submit details of the contracts and the employer and state components of the contract including quantity and value of each component.</i>
<p>B. Qualification and experience of key personnel (Clause 2.3b)</p> <p>The qualifications and experience of key personnel proposed for administration and execution of the Contract, both on and off site. The minimum requirement is:-</p> <ul style="list-style-type: none">i. I no. BSc. Mechanical Engineer (Registered by Engineering Board of Kenya) or equivalent with at least ten (10) years' experience with 5 years specific experience involvement in similar works;ii. I no. Systems Engineer or equivalent with at least ten (10) years' experience in design and installation of PLC based control systems – holding at least BSc in Engineering;iii. I no. Diploma Mechanical technician, or equivalent with at least five (5) years' experience with 2 years specific experience involvement in similar works;iv. I no. Diploma Electrical technician or equivalent , licensed by the Energy Regulation Commission with a Minimum Class C. <p><i>NB: Bidders shall submit CV's and copies of certificates of key personnel to be involved in the works</i></p>
<p>C. Financial position and capability (Clause 2.5a)</p> <p>Bidders shall meet requirements in Clause 2.3. In addition the tenderer and each partner in a Joint Venture shall submit audited accounts of any of the last three consecutive years ending 2015, 2016, 2017 or 2018 to demonstrate;</p>

Criteria
<p>i. The tenderer shall have a minimum average annual turnover of at least Kenya Shillings One Hundred Million (Kshs. 100,000,000) as calculated from the submitted Audited financial statements which should incorporate the balance sheet (statements of financial position) profit and loss statements (statements of comprehensive income) and cash flow statement for any of the last three consecutive years (2018, 2017, 2016, 2015) prepared in accordance with international financial reporting standards and incorporating audit opinions issued in accordance with ICPAK by- law no. 38”.</p> <p>The Audited accounts must indicate the name of Auditor and ICPAK Practicing Number on all the Audited Accounts (<i>in case of a joint venture, the lead partner (the company) who will sign the contract must submit</i>).</p> <p><i>Points will be prorated for each year submitted that meets the minimum requirements)</i> Bidders must note that due diligence on the authenticity of the financial information/ Auditors professional standing may be carried out from Kenya Revenue Authority, Institute of Certified Public Accountants or the particular Auditor e.t.c</p>
<p>ii. Tenderer’s capacity to have cash flow amount of Kenya Shillings Twenty Five Million (Kshs.25,000,000) equivalent; by access to lines of credit, other financial resources such as bank statements or letter from the bank. In case of joint venture all parties combined must meet requirement.</p>
<p>D. Compliance with Technical Specifications</p>
<p>i. Tenderer shall furnish documentary evidence in form of material datasheet to demonstrate that the Goods they offer comply with or exceeds the specifications and all other requirements in the tender document. Section 7 of the bidding document</p>
<p>Total score</p>

NB. Bidders shall comply with all technical specifications. Where they do not comply, the bidder shall provide an alternative or equivalent.

3. Financial Evaluation

The award will be to the lowest evaluated bidder. The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be subject of correction, adjustment or amendment in any way by any person or entity as required by clause 82 of the public procurement and asset disposal act, 2015

NB: Due diligence may be carried out on any of the information provided by the bidder.

Bidders are required to serialize their bidding document from the first to the last page including all the attachments.

SECTION IV: CONDITIONS OF CONTRACT (INCLUDING ERECTION ON SITE)

PART I – GENERAL CONDITIONS

PART I – General Conditions, shall be those forming Part I of the “Conditions of Contract for Electrical and Mechanical Works – Including Erection on Site, Third Edition 1987, re-printed 1988 with Editorial Amendments” prepared by the Federation Internationale des Ingenieurs – conseils (FIDIC). The Conditions are subject to variations and additions set out in Part II hereof entitled “Special Conditions”.

Note

- i. The standard text of the General Conditions of Contract must be retained intact to facilitate its reading and interpretation by tenderers. Any amendments and additions to the General Conditions, specific to a given Contract, should be introduced in the Special Conditions or in the Appendix to Form of Tender.
- ii. The Special Conditions take precedence over the General Conditions of Contract.
- iii. Copies of the FIDIC Conditions of Contract can be obtained from:

FIDIC Secretariat
P. o. Box 86
1000 Lausanne 12
Switzerland
Fax: 41 21 653 5432
Telephone 41 21 653 5003

PREAMBLE TO GENERAL CONDITIONS

This Preamble must be completed in all cases referring to completed schedules where appropriate. When completed, this Preamble, the General Conditions, Specification, Employer's and Contractor's Drawings, Schedules and other documents can constitute a Contract on the basis of the General Conditions in Part II. If this is not what is required, Part II must also be completed.

SUB- CLAUSE	
1.1.1	<p><u>Commencement Date</u></p> <p>The date for commencement of the Works is: Date when letter of Notice to Commence is issued.</p>
1.1.12	<p><u>The Employer</u></p> <p>The Employer is: Kenya Airports Authority</p>
1.1.15	<p><u>The Engineer</u></p> <p>The Engineer is: General Manager, Planning and Engineering Services (GM {P & ES}), Kenya Airports Authority</p>
1.1.35	<p><u>Time for Completion</u></p> <p>The Time for Completion is twenty four (24) weeks from commencement Date and in accordance with the delivery schedule.</p>
1.6	<p><u>Costs, Overhead Charges and Profit</u></p> <p>The percentage to cover profit entitlement, where applicable, is 10%.</p>
5.1	<p><u>Ruling Language</u></p> <p>The version in English language (ruling language) shall prevail.</p>
5.2	<p><u>Day to Day Communications</u></p> <p>The language for day to day communications is English.</p>
12.1	<p><u>Programme to be Furnished</u></p> <p>The Programme must be submitted in the form of critical path network, bar chart or equivalent.</p>

SUB- CLAUSE	
14.3	<p><u>Electricity, Water, Gas and Other Services</u></p> <p>Supplies on the Site are:</p> <p>a) Electricity, b) Water.</p> <p>Contractor shall be required to pay for employer's services they may expend on site. Where necessary, contractor shall provide approved metering devices for determination of services consumed and shall be required to obtain the services at points and sources shown by employer.</p>
14.4	<p><u>Employer's Equipment</u></p> <p>The following Employer's equipment is available for use by the Contractor under the Employer's operation: N/A</p>
18.3	<p><u>Working Hours</u></p> <p>The normal working hours are from 8.00 am to 5.00 pm local time, Monday to Friday except lunch time between 1.00 pm and 2.00 pm and on public holidays.</p> <p>Upon prior arrangements with employer, contractor may be allowed to work outside the hours mentioned.</p>
27.1	<p><u>Delay in Completion</u></p> <p>Failure to meet the Time for Completion entitles the Employer to reduction in Contract Price as follows:</p> <p>Amount for each day of delay: 0.15% Maximum: 10% of total contract sum</p>
27.2	<p><u>Prolonged delay</u></p> <p>Maximum amount recoverable from the Contractor by the Employer: Amount equal to total contract sum.</p>
33.1	<p><u>Terms of Payment</u></p> <p>In addition to the provisions under Clause 33, the terms of payment shall be:</p> <ul style="list-style-type: none"> - Based on certificate for quantity supplied and/or work done as indicated in the bills of quantities.

SUB- CLAUSE	
	<ul style="list-style-type: none"> - The payments shall be made subject to deduction of retention monies at the rate indicated in the Appendix to Form of Tender.
35.1	Payment of Foreign Currency portion: Payments shall be in Kenya Shillings
42.2	<p><u>Maximum Liability</u></p> <p>The maximum liability of the Contractor to the Employer shall be limited to the contract sum and shall cover all occurrences.</p>
43.1	<p><u>Insurance of Works</u></p> <p>The deductible limits in the insurance cover of the Works shall not exceed Kenya Shillings one million (KShs.1,000,000.00) equivalent.</p>
43.3	<p><u>Third Party Liability</u></p> <ul style="list-style-type: none"> i) Amend clause by adding “including property of the employer other than the works” after the words “physical property” ii) The amount of insurance against third party liability taken out by the Contractor shall not be less than: <ul style="list-style-type: none"> Kenya Shillings five million (KShs. 5,000,000.00) equivalent with deductible limits of Kenya Shillings two hundred thousand (KShs. 200,000.00).
46.3	<p><u>Payment on Termination for Employer’s Default</u></p> <p>The additional amount payable by the Employer on termination shall not exceed: 10% of contract value.</p>
47.1	<p><u>Labour, Materials and Transport</u></p> <p>The method of calculating adjustments for changes in costs shall be:</p> <ul style="list-style-type: none"> - Contract rates of prices for materials and transportation shall remain fixed throughout the contract duration. - Contract rates for Labour shall remain fixed unless the government of Kenya makes adjustments in labour prices. Any such change shall be considered at an equitable fraction.
49.2	<u>Notices to Employer and Engineer</u>

SUB- CLAUSE	
	<p>The address of the Employer for notices is:</p> <p style="padding-left: 40px;">Managing Director Kenya Airports Authority, 3rd floor, Kenya Airports Authority Headquarters, Airport North Road, P. O. Box 19001 – 00501 NAIROBI-KENYA,</p> <p>The address of the Engineer for notices is:</p> <p style="padding-left: 40px;">General Manager (P & ES) Kenya Airports Authority, 2nd floor, Kenya Airports Authority Headquarters, Airport North Road, P. O. Box 19001 – 00501 NAIROBI-KENYA,</p>
51.1	<p><u>Applicable Law</u></p> <p>The applicable law is the law of the republic of Kenya.</p>
51.2	<p><u>Procedural Law for Arbitration</u></p> <p>The procedural law for arbitration is:</p> <p>The rules of arbitration shall be those contained in the Arbitration Act of the Laws of Kenya.</p>
51.3	<p><u>Language and Place of Arbitration</u></p> <p>The language of arbitration is English.</p> <p>The place of arbitration is Nairobi, Kenya.</p>

PART II – SPECIAL CONDITIONS

(The Clauses referred to in Part II – Section A are those where the provision in the General Conditions (Part I) refer to an alternative solution to be stated in Part II. The provisions in the General Conditions will apply unless an alternative solution is given in Part II – Section A. The clauses in this section need therefore not be completed, but must be completed if alternative solutions to the relevant Part I provisions are necessary.)

SUB- CLAUSE	
1.1.1	<p>Conditions Precedent to Commencement</p> <p>The following financial and administrative requirements are conditions precedent to commencement:</p> <p>Signing of contract, submission of performance security.</p>
1.1.11	<p>Defects Liability Period</p> <p>The Defects Liability Period one (1) calendar year subject to Clause 30.4 of the Conditions of Contract.</p>
2.1	<p>Engineer's Duties</p> <p>The Engineer requires the consent of the Employer before exercising the following duties:</p> <p>Matters that will lead to increase of value of the contract.</p>
6.6	<p>Operation and Maintenance Manuals</p> <p>Operation and Maintenance Manuals shall be in English language.</p>
10.1	<p>Performance Security</p> <p>The Contractor shall obtain a Performance Security at an amount equal to 10% equivalent of the contract sum as per the instructions to Tenderers.</p>
14.3	<p>Electricity, Water and Gas</p> <p>The following consumables may be provided by the Employer:</p> <ul style="list-style-type: none"> a) Electricity, b) Water.

SUB- CLAUSE	
	The consumables will be provided at the ruling consumer charges/rates at the relevant sites, plus administrative charges determined by the Employer.
14.4	<p>Employer's Equipment</p> <p>The following items of Employer's Equipment will be provided free of charge by the Employer for the Contractor's use: none.</p>
14.7	<p>Authority for Access</p> <p>All persons seeking access to the site shall be in yellow or orange reflective jackets.</p> <p>The Employer shall provide personnel and vehicles security access passes to the restricted areas related to the project.</p> <p>The contractor will be required to pay for the car park charges within the airport.</p>
30.4	<p>Extension of Defects Liability Period</p> <p>In the event of suspension the Defects Liability Period shall not last more than 3 years after the date the Plant would have been delivered but for the suspension.</p>
33.2	<p>Method of Application</p> <p>Application for payment shall be made as follows:</p> <p>As per Sub-clause 33.1 of Preamble to General Conditions.</p>
33.5	<p>Payment</p> <p>The period for payment shall be: Within 30 days after certification.</p> <p>The place for payment shall be: Kenya Airports Authority Headquarters.</p>
33.6	<p>Delayed Payment</p> <p>The interest rate for delayed payment is simple interest at a rate three percentage points above the Central Bank of Kenya's average rate for base lending prevailing as of the first day the payment becomes overdue.</p>
33.8	<p>Payment by measurement</p>

SUB- CLAUSE	
	<p>The provisions for measurement are:</p> <p>Where any part of works is to be paid for according to the quantity of plant supplied or work done the following provisions shall apply:</p> <p>I. Such part of works shall be measured from time to time by the Engineer or by the Contractor. No such measurement shall be made by either of them without the other being afforded a reasonable opportunity of attending and agreeing the measurements. The contractor shall at the request of the Engineer open up any part of the works which may have been covered up without his having been afforded a reasonable opportunity of measuring or agreeing to the measurements thereof and the contractor shall restore the same at his own cost. All measurements shall be made in accordance with the provisions of the specification respecting methods of measurement.</p> <p>The sum payable in respect of such part of the works shall be ascertained according to the price or rate appropriate thereto as specified in the contract. If No appropriate price or rate has been specified, the price or rate shall be fair and reasonable price or rate taking into account any prices or rates that may be specified in the contract for similar plant or work.</p>
48.1	<p>Customs and Import Duties</p> <p>Contractor is required to factor in all import duties and taxes (including VAT and IDF charges) consequence of the importation of the spare parts in his DDP offer in the tender.</p>
50.2	<p>Arbitration</p> <p>The rules of arbitration shall be those contained in the Arbitration Act of the Laws of Kenya.</p>

SECTION V: TECHNICAL SPECIFICATIONS

Table of Contents

1.	SCOPE OF WORKS	41
2.	GENERAL	41
3.	CODES AND STANDARDS	41
4.	SUBMITTALS	42
5.	QUALITY ASSURANCE	42
6.	DELIVERY, STORAGE AND HANDLING	42
7.	PRODUCTS	42
7.1.	Manufacturing.....	42
7.2.	Operating Conditions	43
7.3.	Description and Operation of Passenger Boarding Bridges (PBB)	43
7.3.1.	Physical Description of Major Components.....	43
7.3.2.	Description of Electrical System.....	45
7.3.3.	Control Sequence	46
7.3.4.	Presetting	46
7.3.5.	Status Message List	47
7.3.6.	Error Message List	47
7.4.	Proposed Technical Requirements of Electrical Components.....	47
7.4.1.	Horizontal Drive Geared Motors.....	47
7.4.2.	Vertical Drive Geared Motors	48
7.4.3.	Variable Speed Drive	48
7.4.4.	Limit Switches	49
7.4.5.	Proximity Sensors	49
7.4.6.	Key Selector Switch	50
7.4.7.	Joystick	50
7.4.8.	Foot Switch	51
7.4.9.	Contactors	52
7.4.10.	Circuit Breakers.....	53
7.4.11.	24VDC Power Supply	53
7.4.12.	Programmable Logic Controller (PLC)	54
7.4.13.	LCD Operator Panel (HMI).....	54
7.4.14.	Lighting	55
7.5.	Proposed Technical Requirements of Mechanical Works	57
7.5.1.	Painting works.....	57
7.5.2.	Canopy and Tires.....	58
7.6.	Warranty.....	58
8.	WORK EXECUTION	59
8.1.	General.....	59
8.1.1.	Testing and Commissioning	59
8.2.	Training	59

8.2.1.	Factory Training	59
8.2.2.	PLC programming and Geared Motors Maintenance Training	59
9.	OPERATION AND MAINTENANCE MANUALS	60
10.	SCHEDULE OF DEVIATIONS FROM TECHNICAL SPECIFICATION.....	61
11.	SPARE PARTS	62

1. SCOPE OF WORKS

- A. The Contractor shall supply, deliver, install, erect, test and commission all materials and equipment and hand over in an acceptable condition as specified herein and as shown on the contract drawings.
- B. The scope of work shall include the following:
 - a. Electrical works comprising of replacement of:-
 - i. Geared motors
 - ii. Variable speed drives
 - iii. Limit switches as per the specifications.
 - iv. PLC based control system
 - v. Automatic voltage regulators
 - vi. Lighting and power
 - b. Mechanical works comprising of:-
 - i. Welding and fabrication works.
 - ii. Spray painting works
 - iii. Replacement of rails and bearings
 - c. Building works comprising of replacement of:-
 - i. Interior ceiling boards
 - ii. Floor boards/ PVC tiles
 - d. Replacement of tires
 - e. Training for operators and maintenance personnel

2. GENERAL

- A. This specification contains the minimum requirements for the rehabilitation of boarding bridges items under the scope of work.

3. CODES AND STANDARDS

- A. Characteristics of the boarding bridge components shall, except when clearly indicated otherwise in the Specification, conform to the following ICAO Standards and Recommendations, Aerodrome Design Manual, Airport Services Manual, IEC International Standards and other related national or international regulations.
 - a. Annex 14 Aerodromes (Seventh – November 2016)
 - b. Aerodrome Design Manual, Part 4 Visual Aids (Fourth Edition – 2004)
 - c. Airport Service Manual, Part 9 Airport Maintenance Practices (First Edition – 1984)
- B. Unless specified otherwise in this Specification, design, materials, manufacture, and testing of all works shall comply with the following Standards and recommendations;
 - a. EN 12312-4:2014
 - b. ICAO Aerodrome Design Manual, Part 5 Electrical Systems (1st Edition – 1983)

- c. ICAO Airport Services Manual Part 8 – Airport Operational Services
- d. IEC International Electro technical Commission Publications
- e. ISO International Organization for Standardization

C. Materials, devices and small parts may comply with the national or international authorized Standard prevalent in the country of manufacture. However, adequate modification shall be made for the point of interface with the facilities provided in accordance with relevant Standards and regulations.

4. SUBMITTALS

- A. Work program after notice to commence
- B. Implementation plan after notice to commence
- C. Field test reports and other documentation including a description of the test procedures and inspections with results listed for each test performed in a type-written format. Include results of tests, inspections and retests (this shall be done for all the motors during factory test).
- D. Product data sheets and equipment ratings
- E. Installation, Operation and Maintenance manuals

5. QUALITY ASSURANCE

- A. Provide a list of testing equipment with make and model numbers.

6. DELIVERY, STORAGE AND HANDLING

- A. Equipment shall be handled and stored in accordance with manufacturer's instructions. One (1) copy of these instructions shall be included with the equipment at time of shipment.

7. PRODUCTS

7.1. Manufacturing

- A. All equipment offered shall be the product of recognized and experienced manufacturers and shall be of basic design and size similar to such that has been in successful continuous operation for at least ten years preferably under similar climatic conditions. Proven plant reliability and high availability are of prime importance and the attention of the Bidder is drawn to these particular requirements.

- B. The manufacturer's identity and places of manufacture, testing and inspection before shipment for the various portions of the works shall be specified in the technical proposal and shall not be departed from without the agreement of the Employer.
- C. As soon as practicable after entering into the Contract, the Contractor shall, having obtained the Engineer 's consent in accordance with the Conditions of Contract, enter into the Sub-contracts he considers necessary for the satisfactory completion of the Contract Works.
- D. All Sub-contractors and Sub-suppliers of components and materials shall be subject to the approval of the Engineer. Information shall be given on each Sub-order sufficient to identify the material or equipment to which the sub-order relates, stating that the material is subject to inspection by the Employer before dispatch.
- E. If the Employer at any stage in the design and production period finds out that the manufacturer does not fulfill the requirements in the specifications and it is obvious that the required quality cannot be achieved by corrective measure he can request the contract to be suspended and the works to be produced elsewhere without extra cost for the Employer.

7.2. Operating Conditions

- A. The equipment and all components shall be suitable for operation in ambient conditions of 5°C to 45°C without overheating and up to 85% relative humidity in an unheated ventilated building or shed.
- B. The airfield ground lighting cables and series transformers shall be suitable for operation even when submerged in water
- C. The equipment and all components shall be suitable for operation at an altitude of 60m above sea level.

7.3. Description and Operation of Passenger Boarding Bridges (PBB)

7.3.1. Physical Description of Major Components

- A. The PBBs provides a convenient method of boarding and leaving an aircraft, as well as protecting the passengers from rain, wind, jet blast, noise and dust. It also separates the ground crew from the passengers. It is a telescoping tunnel which is used to connect the passenger terminal building with the aircraft.
- B. The PBBs consist of two individual telescoping tunnels that can be driven from a parked position by the terminal building out to the aircraft.
- C. Movement of the PBBs is controlled by the operator through electrical controls mounted on a control console in the cabin.
- D. The major components of the PBB include:

i. Rotunda

The rotunda connects the terminal building walkway extension and the first tunnel section (Section A), and is the point at which the unit pivots.

During operation, the rotunda floor, ceiling, vertical frame, and wall panel adjacent to the terminal remain stationary.

The rigid frame, with roof attached, rotates about the rotunda column.

The rotunda curtains consist of a left and right hand section.

Both sections wind or unwind upon barrels as the PBB is rotated.

The barrels are located inside steel plate housings on the rigid frame.

Both barrels contain a spring, which when properly adjusted, maintain a tension force on the curtains. Horizontal idler rollers and full length vertical rollers are provided to properly guide the curtain slats from the barrels onto the rotunda floor and ceiling. Two tunnel bumpers, located on the sides of the rotunda rigid frame, provide an emergency shock absorber in the event of electrical failure during retraction. The interior is finished with a floor covering, ceiling tile, and a light fixture.

ii. Rotunda Column

The rotunda column supports the rotunda, and provides the point around which the rotunda pivots during operation.

The column remains stationary during operation and is secured to a concrete foundation with anchor bolts

iii. Tunnel sections

Several types of roller assemblies are installed to obtain smooth extension and retraction of PBB.

Drain holes are provided in the flange plates of the roof panels for water run-off on the outside.

Gutters are provided in the inside of the second tunnel section (Section B) on each side of the floor.

Tunnels are constructed of corrugated steel sheets and steel bar flanges.

iv. Wheel carriage assembly

The wheel carriage assembly includes the carriage frame, wheels and tires, chain drive, the gear-type drive motors and electrical cabling.

v. Drive column

The drive column is a mechanism that raises/lowers the tunnel and cap, is connected to the wheel carriage by trunnion pin, and consists of the swivel tube, cross beam, left and right column assemblies and drive assemblies. For detection, it is equipped with wheel direction and height sensors.

Independent drive assemblies are provided on the upper edge of the left/right columns, one on each side. Left/right columns are raised/lowered by vertical drive motor.

vi. Cab Assembly

The cab assembly is constructed of steel and has an interior resin paint finish, floor covering, ceiling tile and light fixture. A steel roll-up weather door, steel cab curtains, control console, automatic leveler and an electro-mechanically-operated closure complete the components of the cab assembly. The cab is rotated by a three phase geared motor, mounted at the lower cab support frame end.

7.3.2. Description of Electrical System

- A. The PBB is controlled freely by giving necessary electrical commands by means of the electrical controls mounted on the control console in the cabin. Power source for the PBB is 415VAC, 50 Hz, 3-phase, 4-wires from an automatic voltage regulators locates at the switchgear room.
- B. Telephone communication cable of the PBB is provided from the terminal building up to the cabin and connecting tunnel to facilitate connection by the customer to the telephone system.
- C. Power, lighting and control circuits are connected on the following boards and consoles:
- i. Main switchboard equipped with:
 - Cut-off earth leakage circuit breaker
 - Moulded Case Circuit Breakers
 - ii. Control console equipped with:
 - Controls necessary for operating the PBB as described in the Control Sequence section below.
 - Lighting switches
 - Socket outlet
 -
 - iii. Power control console
 - 110VAC power supply and battery
 - 24VDC power supply

- Circuit breakers
- Contactors
- Inverters
- Programmable logic controller (PLC)

D. Components of the electrical system shall be as shown on the drawing(s)

7.3.3. **Control Sequence**

A. Controls necessary for operating the PBB shall include the following components:

- i. 3-position control key switch
- ii. LED pilot lights
- iii. Limit switches
- iv. Emergency push buttons
- v. Joystick
- vi. Foot pedals
- vii. LCD operator panel

B. Most of the controls are connected to the PLC for sequence, monitoring and safety management

C. The contractor shall design the PLC control and monitoring programme and submit to the Employer for review and approval before implementation. The program shall comprise of the following modules:

- i. Power ON-OFF
- ii. Closure Raising and Lowering
- iii. Cabin Rotation
- iv. Tunnel Raising and Lowering
- v. Horizontal Drive
- vi. Auto-levelling
- vii. Presetting
- viii. Status monitoring
- ix. Error monitoring

D. The contractor shall give utmost consideration to safety in each step of the program design. Operation of the PBB shall be inhibited whenever there will be risk of safety of personnel, damage to equipment and damage to the aircraft are not guaranteed.

7.3.4. **Presetting**

A. The contractor shall provide, in the PLC program, a function of facilitating the docking operation of the PBB with the aircraft.

B. The docking cabin heights and cab rotation angles for various aircraft models shall be stored in memory.

- C. On selecting the aircraft model on the operation panel, the associated cabin floor height and rotation angle shall automatically be set for the positions so stored in the memory.

7.3.5. **Status Message List**

- A. To ensure safe and efficient operation of the PBB, the status of each limit switch shall be displayed.

7.3.6. **Error Message List**

- A. The control system shall be able to monitor and display, on the HMI, messages of all system errors to enable quick resolution of faults. The error messages will include:
- i. Motor overload
 - ii. Circuit breaker tripped
 - iii. 24VDC power supply fault
 - iv. Autoleveler fault or failure
 - v. Contactors welded or not energized
 - vi. Column imbalance
 - vii. Inverter tripped
 - viii. Limit switch failed

7.4. **Proposed Technical Requirements of Electrical Components**

7.4.1. **Horizontal Drive Geared Motors**

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Motor make and model	<i>Tender to insert make and model</i>	
2.	Power	≤5.5kW, 4-pole	
3.	Voltage	415VAC±6%	
4.	Frequency	50Hz±1Hz	
5.	Speed	1.450 rpm	
6.	Gear reduction ratio	1:35	
7.	Output and break torque	5.5kgf.m	
8.	Break type	Cyclone drive	
9.	Break current	≤1.1A	
10.	Insulation class		

7.4.2. Vertical Drive Geared Motors

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Motor make and model	<i>Tender to insert make and model</i>	
2.	Power	≤2.2kW, 4-pole	
3.	Voltage	415VAC±6%	
4.	Frequency	50Hz±1Hz	
5.	Speed	1.410 rpm	
6.	Gear reduction ratio	1:35	
7.	Output and break torque	3.0kgf.m	
8.	Break type	Cyclone drive	
9.	Break current	≤0.2A	
10.	Insulation class		

7.4.3. Variable Speed Drive

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Drive make and model	<i>Tender to insert make and model</i>	
2.	Standards and certification	IEC 61800-5-1, IEC 61800-3 (environments 1 and 2, categories C1 to C3)	
3.	Power	≥5.5kW	
4.	Supply voltage	415VAC±10%, 50Hz±1Hz	
5.	Output frequency	0.1-400Hz	
6.	Speed		
7.	Gear reduction ratio		
8.	Output and break torque		
9.	Break type		
10.	Break current		
11.	Communication	Modbus TCP, Profibus and/or ProfiNet,	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
12.	Programming	Local and Remote	
13.	Degree of Protection	IP20	
14.	Insulation class		

7.4.4. Limit Switches

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Limit switch make and model	<i>Tender to insert make and model</i>	
2.	Design	Form A conforming to EN50041	
3.	Movement of operating head	Rotary, spring return lever	
4.	Material	Metal	
5.	Fixing mode	By the body	
6.	Contacts	1 NC + 1 NO	
7.	Contact operation	Snap action	
8.	Operational current	≥2A at 50VAC conforming to EN60947-5-1	
9.	Resistance across terminals	≥25MΩ conforming to IEC 60255-7	
10.	Electrical durability	≥5 million cycles	
11.	Mechanical durability	≥30 million cycles	
12.	Protection	IP66 conforming to IEC 60529	

7.4.5. Proximity Sensors

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Proximity sensor make and model	<i>Tender to insert make and model</i>	
2.	Sensor type	Inductive	
3.	Design	Cylindrical	
4.	Material	Metal	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
5.	Body type	Fixed	
6.	Output signal	Discrete, I NO	
7.	Nominal sensing distance	5mm	
8.	Supply voltage	24VDC	
9.	Switching capacity	≥100mA	
10.	Protection	IP67 conforming to IEC 60529	
11.	Detection face	Front	

7.4.6. Key Selector Switch

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Standards	IEC 60947-1, IEC 60947-5-1, IEC 60947-5-4, IEC 60947-5-5	
2.	Mounting diameter	22mm	
3.	Protection	IP66 conforming to IEC 60529	
4.	Positions	3-position, +/-45°	
5.	Type of key lock	Ronis 455	
6.	Key withdrawal position	Left	
7.	Contacts	2 NO	
8.	Contact operation	Slow-break	
9.	Mechanical durability	≥1 million cycles	
10.	Vibration resistance	5 gn conforming to IEC 60068-2-6	

7.4.7. Joystick

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Joystick make and model	<i>Tender to insert make and model</i>	
2.	Conformity	EN/IEC 60947-5-1	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
3.	Shock resistance	100gn in direction of shocks on horizontal and transversal axes in conformity to IEC 60068-2-27	
4.	Electric shock protection	Class I in conforming to IEC 61140	
5.	Degree of protection	IP 54 in compliance to IEC 60529	
6.	Mechanical durability	≥4 million cycles	
7.	Contact operation	Slow break, double-break contacts with positive opening operation	
8.	Resistance across terminals	≤25mΩ	
9.	Control lever	Short	
10.	Number of directions	8	
11.	Types of lever movement	Notched	
12.	Handle	With zero (centre) position mechanical interlocking, With built-in flush pushbutton (1 C/O contact)	
13.	Contacts	Block of 4 double-break contacts	
14.	Potentiometer	None	

7.4.8. Foot Switch

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Foot switch make and model	<i>Tender to insert make and model</i>	
2.	Standards	EN 50014, EN 50281-1-1, IEC 61241-0, IEC 61241-1	
3.	Dust zone	21 - 22	
4.	Material	Metal, blue	
5.	Contacts	1 NC + 1 NO	
6.	Mechanical durability	4 million cycles	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
7.	Operating current	≥1A at 240VAC	
8.	Protection	IP66	
9.	Vibration resistance	15 gn conforming to IEC 60068-2-6	
10.	Electric shock resistance	Class I conforming to EN/IEC 61140	

7.4.9. Contactors

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Contactor make and model	<i>Tender to insert make and model</i>	
2.	Standards	BS 5424, IEC 60947	
3.	Application	Motor control	
4.	Rated operational voltage [Ue]	690 V AC 50Hz for power circuit	
5.	Rated operational current [Ie]	16A at ≤440 VAC for power circuit	
6.	Motor power kW	7.5kW at 415VAC 50Hz	
7.	Control circuit voltage [Uc]	240VAC 50Hz	
8.	Auxiliary contact composition	2NO	
9.	Rated impulse withstand voltage [Uimp]	8 kV	
10.	Rated breaking capacity	110A at 415V conforming to IEC 60947	
11.	Rated short-time withstand current [Icw]	25A ≤50 °C ≥ 15 min power circuit, 80A 1s signaling circuit	
12.	Electrical durability	1 million cycles at 16A and Ue ≤440 V	
13.	Mechanical durability	5 million cycles	
14.	Interlocking type for reversing contactor	Mechanical	
15.	Protection	IP20	

7.4.10. Circuit Breakers

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Circuit breaker make and model	<i>Tender to insert make and model</i>	
2.	Application	Motor protection	
3.	Standards	EN/IEC 60947-2	
4.	Poles description	2P, 3P	
5.	Rated current [In]	100A, 50A, 30A, 16A	
6.	Trip unit technology	Magnetic	
7.	Curve code	MA	
8.	Breaking capacity	20 kA Icu conforming to EN/IEC 60947-2 – 380-415 VAC 50Hz	
9.	Contact position indicator	Yes	
10.	[Uimp] rated impulse withstand voltage	6kV conforming to EN/IEC 60947-2	
11.	Mechanical durability	20,000 cycle	
12.	Electrical durability	10,000 cycles	
13.	Protection	IP20 conforming to EN/IEC 60529	

7.4.11. 24VDC Power Supply

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Power supply make and model	<i>Tender to insert make and model</i>	
2.	Power supply type	Regulated switch mode	
3.	Input voltage	240 V AC phase to phase, terminal(s): L1-L2	
4.	Output voltage	24VDC with battery control functionality	
5.	Power supply output current	20A	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
6.	Backup supply	UPS Functionality, Rechargeable Battery included, Min 2 hours runtime	
7.	Output protection type	Thermal protection: automatic reset	
8.	Efficiency	≥85%	
9.	Line and load regulation	1-3%	
10.	Protection	IP20 conforming to EN/IEC 60529	
11.	MTBF reliability	≥500,000Hrs at 240 V AC	

7.4.12. Programmable Logic Controller (PLC)

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	PLC make and model	<i>As by Siemens S7-315 and compatible IO modules (or approved equivalent)</i>	
2.	PLC type	Modular, expandable to ___ IO	
3.	Supply voltage	24VDC or 240VAC±6% 50Hz	
4.	Digital inputs	128no 24VDC	
5.	Digital outputs	32no solid state	
6.	Relay outputs	16no 240VAC	
7.	Real-time clock	Yes	
8.	Memory	Flash 128 MB Internal RAM 64 MB	
9.	Network capabilities:	Ethernet, Serial Line, ProfiNet, Profibus	
10.	Programming languages support in compliance to IEC61131-3	IL: Instruction List, LD: Ladder Diagram, ST: Structured Text, FBD: Function Block Diagram, SFC: Sequential Function Chart	
11.	Programming software	Yes, complete with simulator and license(s)	

7.4.13. LCD Operator Panel (HMI)

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	HMI make and model	<i>As by Siemens KTP700, Schneider Magelis (or approved equivalent)</i>	
2.	Display	7-inch TFT LCD Color 64 million colors	
3.	Resolution	800 x 480 pixels	
4.	Control	Touch screen	
5.	Memory	32MB EPROM, SD Card Slot	
6.	Communication	RJ 45 Ethernet/ PROFINET/ Modbus TCP/ USB host	
7.	Protection	IP65 front conforming to EN/IEC 60529	
8.	Tags	500	
9.	Vector graphics	Yes	
10.	Archiving	Yes	
11.	Supply Voltage	12..24 VDC	
12.	MTBF Backlit	50,000 Hours at 40°C	

7.4.14. Lighting

A. Tunnel lightings

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Light fitting make and model	<i>Tender to insert make and model</i>	
2.	Type	1200x300mm LED panel	
3.	Beam angle of light source	120°	
4.	Light source color	840 neutral white	
5.	Driver included	Yes	
6.	Protection class IEC	Safety class I	
7.	Input Voltage	240 VAC, 50Hz	
8.	Power Factor	≤0.9	
9.	Dimmable	Yes	
10.	Ingress protection code	IP20	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
11.	Luminous flux	3600lm	
12.	Efficacy	100lm/W	
13.	Color temperature	4000K	
14.	Lumen maintenance at median useful life*	L75 50,000H	

B. Emergency lights

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Light fitting make and model	<i>As by Philips EM120B (or approved equivalent)</i>	

C. Floodlights for the service door

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Light fitting make and model	<i>As by Philips BVP650 LED100-4S/740 PSU S ALU (or approved equivalent)</i>	

D. Apron Floodlights

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Light fitting make and model	<i>As by _____ (or approved equivalent)</i>	
2.			

7.5. Proposed Technical Requirements of Mechanical Works

7.5.1. Painting works

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Dents and holes repair	<ul style="list-style-type: none"> - Cut out the corroded sections in regular patterns - Replace with gauge 18 galvanized sheet metal by welding. - Refill the parts of rails which are worn and machine to the original finish. - Reinforce the rail sections on the depressed sections 	
2.	Surface preparation	<ul style="list-style-type: none"> - Wash the metal surface with water based degreasing agent. - Remove loose paints by scrubbing or sanding the surface of the boarding bridge 	
3.	Primer	<ul style="list-style-type: none"> - Flash point above 25degrees Celsius - Percentage PVC composition above 29 - Theoretical coverage of approximately 8-12 sq. meters per liter. - Iron oxide type. - As Jot mastic 87 (100micron) or approved equivalent. - To be applied in 2 (two) coats by spray painting. 	

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
4.	Paint	<ul style="list-style-type: none"> - First grade, paint guard HB or approved equivalent (100microns) and hard top AS or approved equivalent (50 micron) paints. - Spray paint the bridge to three (3) coats. - NB.to be certified by qualified and certificate given. 	
5.	Fasteners	<ul style="list-style-type: none"> - As per the existing in torque, size and material. 	

7.5.2. Canopy and Tires

Item No	Technical Description	Minimum Requirement	Bidders Offer and/or Statement of Compliance
1.	Boarding bridge tires and tube	<ul style="list-style-type: none"> • Tubeless tire of size: - 40 × 14. • 24 ply Rating • Load rating 27700 LBS 	
2.	Canopy material	<ul style="list-style-type: none"> • Canvas grade CC2 or (approved equivalent). • Should be able to resist prevailing weather conditions. • Should be able to withstand frequent movement without tear. 	
3.			

7.6. Warranty

The supplied materials and equipment shall be warranted by the contractor for one year of operation after official handover.

8. WORK EXECUTION

8.1. General

- A. Before commencement of any works on site, the Contractor shall provide advance notification, indicating the period and exact site boundary of intended excavation/piling works to the Engineer.
- B. The Contractor shall install safety barriers to protect workers from falling and should be safety compliant.
- C. The Contractor shall be required to establish a continuous monitoring plan to ensure that no worker or equipment that could cause damage intrudes into the areas where services are found.

8.1.1. Testing and Commissioning

- A. Factory acceptance testing is required under this contract to ascertain the quality and parameters of the drive motors and PLC controls.
- B. The Contractor shall record the test results in an approved test form in such a manner that the test reports can be used as the basis for future maintenance tests. Test methods and equipment shall be noted on the test sheets.
- C. Commissioning shall be carried out by the Contractor in the presence of the Employer

8.2. Training

8.2.1. Factory Training

- A. Training of employer's personnel at the factory is not required

8.2.2. PLC programming and Geared Motors Maintenance Training

- A. The Contractor shall arrange for formal PLC formal and on-the-job programming training. The training will be conducted in Kenya preferably Mombasa.
- B. The training shall be for 5no Electro-Mechanical and Electrical personnel for a minimum period of 10 days.
- C. The objective of the training shall be as follows:
 - i. To provide a comprehensive overview of current PLCs available.
 - ii. To teach and practically implement PLC programming and carry out demonstration of the program practically.
 - iii. To equip the personnel with requisite skills to troubleshoot the software and provide solutions.

9. OPERATION AND MAINTENANCE MANUALS

Equipment operation and maintenance manuals shall be provided both soft and hard copies including copy of the PLC program loaded into two laptops.

10. SCHEDULE OF DEVIATIONS FROM TECHNICAL SPECIFICATION

A. All deviations from the Technical Specification shall be filled in by the Bidder clause by clause in this schedule.

SECTION	SPECIFICATION	CLAUSE NO.	DEVIATION
Etc.			

B. The tenderer hereby certifies that the above mentioned are the only deviations from the technical specification. The tenderer further confirms that in the event any other data and information presented in the tenderer's proposal and accompanying documents including drawings, catalogues, etc., are at variance with the specific requirements laid out in the technical specifications, then the latter shall govern and will be binding on the tenderer for the quoted price.

Signature of Tenderer

11. SPARE PARTS

- A. The bidder shall submit with the tender a list of recommended fast moving spare parts that may be used within 2 years from commissioning, including a breakdown of prices which should be inclusive of all applicable taxes.
- B. Spare parts supplied under the contract shall be properly packed for long time storage.

SECTION VI: DRAWINGS

No	Drawing No	Drawing Title	Size
1.	1528/2018-2019/01	Proposed Electrical Schematic	A3
2.			
3.			
4.			

SECTION VII: BILLS OF QUANTITIES

Notes for preparing Bills of Quantities

I.0 Preamble to Bill of Quantities

- a) The Bill of Quantities shall form part of the Contract Documents and is to be read in conjunction with the Instructions to Tenderers, Conditions of Contract Parts I and II, Specifications and Drawings.
- b) The brief description of the items in the Bill of Quantities is purely for the purpose of identification, and in no way modifies or supersedes the detailed descriptions given in the conditions of Contract and Specifications for the full direction and description of work and materials.
- c) The Quantities set forth in the Bill of Quantities are estimated and provisional, representing substantially the work to be carried out, and are given to provide a common basis for tendering and comparing of Tenders. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bill of Quantities. The basis of payment shall be the Contractor's rates and the quantities of work actually done in fulfillment of his obligation under the Contract.
- d) The prices and rates inserted in the Bills of Quantities will be used for valuing work executed, and the Engineer will measure the whole of the works executed in accordance with this Contract.
- e) A price or rate shall be entered in ink against every item in the Bill of Quantities with the exception of items, which already have provisional sums, affixed thereto. The Tenderers are reminded that no "nil" or "included" rates or "lump-sum" discounts will be accepted. The rates for various items should include discounts if any. Tenderers who fail to comply will be disqualified.
- f) Provisional sums (including Day works) in the Bill of Quantities shall be expended in whole or in part at the discretion of the Engineer in accordance with Sub-clause 36.4 of part of the Conditions of Contract.
- g) The price and rates entered in the Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional plant to be used, labour, insurance, supervision, compliance, testing, materials, erection, maintenance or works, overheads and profits, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract, transport, electricity and telephones, water, use and replenishment of all consumables, including those required under the Contract by the Engineer and his staff.

- h) Errors will be corrected by the Employer for any arithmetic errors in computation or summation as follows:
 - (i) Where there is a discrepancy between amount in words and figures, the amount in words will govern; and
 - (ii) Where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit price and the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected.
 - (iii) If a Tenderer does not accept the correction of errors as outlined above, his Tender will be rejected.
- i) “Authorized” “Directed” or “Approved” shall mean the authority, direction or approval of the Engineer.
- j) Unless otherwise stated, all measurements shall be net taken on the finished work carried out in accordance with the details shown on the drawings or instructed, with no allowance for extra cuts or fills, waste or additional thickness necessary to obtain the minimum finished thickness or dimensions required in this Contract. Any work performed in excess of the requirements of the plans and specifications will not be paid for, unless ordered in writing by the Engineer.
- k) The contractor may be required to utilize some 75mm diameter PVC ducts that exist in the employer’s yard and an equivalent quantity may be reduced from the Bills of Quantities.

2.1 SCHEDULE I – PRELIMINARIES AND GENERAL

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT INCLUSIVE OF TAXES
2.1.1	Allow for provision of bonds and insurances	Sum			
2.1.2	Provide for setting up, mobilization and demobilization including profits and overheads	Sum			
2.1.3	Allow for provision of temporary office and store for the contractor	months	6		
2.1.4	Supply PLC programming software with 2no licenses	No	2		
2.1.5	Provisional sum for formal PLC programming training as per specifications for six (6) staff	No	6		
2.1.6	Allow for regulatory inspection and certification for hoisting and lifting equipment for the three bridges to ensure safety and reliability of the equipment	No	3		
	SUBTOTAL FOR SCHEDULE I				

2.2 SCHEDULE 2 – CONTROL SYSTEM

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
2.2.1	Supply and install the following in the power control panel :					
	i. Programmable logic controller (PLC) complete with a minimum of 128 inputs, 48 outputs	No	3			
	ii. 24VDC power supply with backup battery, ≥2hrs runtime – for the entire control system	No	3			
	iii. 12A, 415VAC 3P, INO+INC, 24VDC coil, reversing contactor as by Schneider TeSys D - LC2D12BDV with overload or approved equivalent	No	12			
	iv. 12A, 415VAC 3P, INO+INC, 24VDC coil, contactor as by Schneider TeSys D - LC1D09BD with overload or approved equivalent	No	6			
	v. 7.5kW, 415VAC, 0.1-500Hz, Variable speed drive with Ethernet IP, Modbus TCP or ProfiNet as by Schneider Altivar Machine ATV340 or approved equivalent	No	6			
	vi. Cabling of the power control panel	Sum	1			
2.2.2	Supply and install the operator control consoles , powder coated, corrosion resistant, including the following:	No	1			
	i. Rotary encoders	No	3			
	ii. Limit switches	No	41			
	iii. Proximity switches	No	6			

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
	iv. 3-position key switch, key removal left, maintained, metal	No	3			
	v. Emergency stop buttons	No	3			
	vi. Indicator lamps	No	12			
	vii. Joysticks	No	3			
	viii. Push buttons	No	30			
	ix. Foot pedals	No	6			
	x. Cabling of the operator control console	Sum	1			
	xi. 7-inch HMI Profinet/Profibus	No	3			
2.2.3	Allow for professional services for programming and installation of the programmable logic controllers (PLC)	Sum	1			
2.2.4	Any other control system items to ensure complete and operational PBBs (<i>Tenderer to list and insert quantity, rate and amount</i>)					
	i.					
	ii.					
	iii.					
	iv.					
	v.					
	etc.					
	SUBTOTAL FOR SCHEDULE 2					

2.3 SCHEDULE 3 – ELECTRICAL WORKS

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
2.3.1	Supply and install the following protection electrical items:					
	i. 3P+N, 415VAC, 15kA, Surge protection devices, Type 2 IEC 61643-11/2011	No	3			
	ii. 100A, 3P+N, 30mA earth leakage circuit breakers	No	3			
	iii. 100A, 3P MCB	No	6			
	iv. 30A, 3P MCB	No	15			
	v. 50A, 3P MCB	No	3			
2.3.2	Supply and install the following lighting fittings					
	i. 1200x300mm LED light panel, recessed	No	36			
	ii. 20W circular LED recessed downlighter	No	6			
	iii. Emergency lights	No	24			
	iv. 60W LED floodlights for the service doors	No	15			
	v. 400W LED apron floodlights	No	28			
2.3.3	Socket outlets	No	6			
2.3.4	Cabling for the electrical works	Sum	1			
2.3.5	Supply and install the following geared motors:					
	i. Horizontal drive 3-phase 5.5kw 4 pole induction motor coupled with brake as technical specifications item 7.3.1	No.	6			
	ii. Horizontal cyclone drive brake coupled with the motor as technical specification item 7.3.1	No.	6			

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
	iii. Vertical drive 3-phase 2.2kw 4 pole induction motor coupled with brake as technical specifications item 7.3.1	No.	6			
	iv. Vertical cyclone drive brake coupled with the motor as technical specification item 7.3.1	No.	6			
2.3.6	Any other electrical items to ensure complete and operational PBBs (<i>Tenderer to list and insert quantity, rate and amount</i>)					
	i.					
	ii.					
	iii.					
	iv.					
	v.					
	etc.					
	SUBTOTAL FOR SCHEDULE 3					

2.4 SCHEDULE 4 – MECHANICAL WORKS

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
A.	PAINTING					
2.4.1	Allow for scrapping and removal of the existing corroded sections of the boarding bridge and removal of existing paints through scrapping or sand blasting process.	Item	3			
2.4.2	Supply high grade primers – as Jotamastic 90 primer 200 microns (or approved similar quality) and spray paint all the areas welded. NB: To be certified by qualified inspector and certificate provided.	SM	1,380			
2.4.3	Supply 1 st grade-as jotamastic 90 white paint guard HB or approved superior quality (100microns) paints and spray the bridge to three (3) coats. NB: To be certified by qualified inspector and certificate provided.	SM	1380			
2.4.4	Supply 1 st grade-as jotamastic 90 hardtop or approved superior quality (50 microns) paints and spray the bridge to three (3) coats. NB: To be certified by qualified inspector and certificate provided	SM	1380			
2.4.5	Allow for spray painting of two coats itching primer for the galvanized sheets welded,preparing surface for Jotun or approved paint work.	SM	75			
2.4.6	Prepare the bridge wall skirting for painting and apply two coats of matt black paint	SM	45			
B.	BODY WORKS					

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
2.4.7	Supply and fit ridged galvanized sheets of max. 2mm thickness of gauge 18 as per technical specifications, assemble uniformly on top of boarding bridge and perform welding to join with existing bridge frame. The weld shall be continuous and will be inspected at every stage.	SM	75			
2.4.8	Replace all roller bearings for both upper and lower telescopic tunnel, with new roller shaft, carryout proper greasing before installation of the roller bearings.	No.	78			
2.4.9	Replace all copper greasing tubing and nipples to the roller bearing block assemblies using crimping machine	No.	32			
2.4.10	Replace all roller bearing block tensioning screws and nuts(M32.5 by 3.5pitch by 8inch length using stainless steel material to be machined by high precision lathe & milling machines	Set	30			
2.4.11	Drill out and re-thread with M4 & M6 by 1.5 pitch taps all covers & rubber fastening holes, supply and fit stainless steel screws(M4 & M6 by 4mm) for fastening covers & rubbers	No.	500			
2.4.12	Fabricate bearing cover plates of 3mm by180mm by 213mm, drill 5 through holes of 6.5mm diameter using high precision drilling machine. Plus water proof rubber of 5mm thickness by (180 x 213mm)	No.	30			
2.4.13	Fabricate bearing block tensioning screws covers 6” by 6”, 2.5mm thickness mild steel plate, and drill through holes of 4mm diameter.	No.	30			

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
2.4.14	Replace the swivel main drive shafts as per the sample shown, machine the shafts from tool steel material by using high precision lathe and milling machines, harden and testing them before reassembling , change all oil seals, gaskets, bearings as you service the system, replace the chain and tension to satisfaction (chain details 3/4pitch 6.5mtrs).	Set	3			
2.4.15	Supply rubber of 6.5ft by 6.75ft by 0.5ft of 5mm thickness as the original size, drill 12 M3 through holes	No.	24			
2.4.16	Replace damaged staircase using checkered plate and replace all bolts, nuts and caster wheels.	No.	3			
2.4.17	Supply and replace all fastening bolts and nuts taking into consideration the indicated tensile strength and torque.	set	3			
2.4.18	Drill and thread greasing holes 6mm diameter and fix greasing nipples to the rotunda, service and grease the centering frame pedestal bearing (the process to be inspected before assembling of the bearing unit).	No.	9			
2.4.19	Dismantle, service and repair the canopy transmission screws by refilling & machine to original size using high precision lathe machine, refit & grease it to satisfaction	No.	6			
2.4.20	Allow for service of rotunda by flashing old grease from the pedestal bearing and applying new grease (preferably mollyslip or approved equivalent).	No.	3			
2.4.21	Allow for dismantling and removal of existing canopy, side sponges and bumper.	set	3			
2.4.22	Fabricate and replace canopy fastening rods, stoppers and reinforce fastening frame holding auto leveler machine screw to fit back auto leveler to satisfaction.	Set	3			

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
2.4.23	Supply and fit new canopy of sample material as canvas grade CC2 (or approved superior quality).	No.	3			
2.4.24	Removing the existing block boards and tiles, ensuring the work surface is properly cleaned, grind and polish all rusted areas and spray primer and anti-rust paint.	SM	110			
2.4.25	Supply and fit block boards of first quality thickness 1" (NB contractor to allow for support screws).	SM	114			
2.4.26	Supply and fit block boards of first quality thickness 3/4" (NB contractor to allow for support screws).	SM	45			
2.4.27	Supply and fit by welding bottom U-channels to provide support to the ridged areas of the bridge (the U-channels should be 3"x2" thickness of 3mm).	SM	105			
2.4.28	Supply and fit anti-skid PVC/rubber flooring tiles, including first quality glue	SM	330			
2.4.29	Supply and fit boarding bridge tires and tubes as per the technical specifications, the tires to be inflated using nitrogen gas. (The contractor to provide required nitrogen gas).	No.	6			
2.4.30	Supply and fit soft boards and carry out fastening using aluminum strips as per the sample.	No.	132			
2.4.31	Supply and install perforated metallic or approved equivalent ceiling and replace the entire bridge interior to satisfaction.	No.	432			
2.4.32	Any other mechanical works items to ensure complete and operational PBBs (Tenderer to list and insert quantity, rate and amount)					
	i.					

	DESCRIPTION	UNIT	QTY	RATE		AMOUNT INCLUSIVE OF TAXES
				MATERIALS	INSTALL	
	ii.					
	iii.					
	iv.					
	v.					
	etc.					
	SUBTOTAL FOR SCHEDULE 4					

2.5 SCHEDULE 5 – SUPPLEMENTARY ITEMS

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT INCLUSIVE OF TAXES
2.5.1	Allow for testing of the completed installations	Sum			
2.5.2	Allow for commissioning of completed works	Sum			
2.5.3	Supply 3 sets of as-built drawings both hard and soft copies.	No	3		
2.5.4	Supply 3 sets of operation and technical manuals both hard and soft copies.	No	3		
2.5.5	Supply maintenance tools and measuring instruments				
	i. Mechanical toolkit.	No	2		
	ii. Provide a laptop with PLC program with all required cables for connection to the CPU. (The laptop to have a minimum of 8GB Ram, 1TB storage, windows 10 professional inbuilt operation system and a carrying case.	No	1		
	iii. Provide foot grease gun of 15kg with nozzle hose of minimum 4m length	No	1		
2.5.6	Formal and On-the-job Training as per specifications	No	5		
	SUBTOTAL FOR SCHEDULE 5				

2.6 SCHEDULE 6 – MANDATORY SPARE PARTS

Item	Description	Unit	Qty	Rate	Amount inclusive of taxes
2.6.1	Programmable logic controller	No	1		
2.6.2	Operator panel/HMI	No	1		
2.6.3	Surge protection devices	No	1		
2.6.4	Reversing contactor (12A)	No	2		
2.6.5	Contactor(12A)	No	2		
2.6.6	Limit switches	No	2		
2.6.7	Joystick	No	1		
2.6.8	Indicator lamps	No	20		
2.6.9	Push buttons	No	20		
2.6.10	30A MCB	No	2		
2.6.11	50A MCB	No	1		
2.6.12	Variable speed drives	No	1		
	TOTAL FOR SCHEDULE 6				

2.7 SUMMARY OF TOTALS

Item	Description	Amount inclusive of taxes
2.7.1	Total for Schedule 1 – Preliminary and General	
2.7.2	Total for schedule 2 – Control System	
2.7.3	Total for schedule 3 – Electrical Works	
2.7.4	Total for Schedule 4 – Mechanical Works	
2.7.5	Total for Schedule 5 – Supplementary Items	
2.7.6	Total for Schedule 6 – Mandatory Spare Parts	
2.7.7	SUBTOTAL	
2.7.8	Add 5% contingency on subtotal item above	
2.7.9	SUBTOTAL INCLUDING CONTINGENCY	
2.7.10	Add 16% VAT on subtotal item above	
2.7.11	TOTAL TENDER SUM (INCLUDING VAT AND CONTINGENCIES)	

2.8 SCHEDULE OF RATES

This schedule of rates applies to 1 no passenger boarding bridge located at Jomo Kenyatta International Airport.

Item	DESCRIPTION	UNIT	QTY	RATE INCLUSIVE OF TAXES
A.	Transportation			
2.8.1	Transport one passenger boarding bridge from Jomo Kenyatta Airport (Nairobi) to Moi Airport (Mombasa), including insurances	No	1	
2.8.2	Disassemble passenger boarding bridge at Bay 4, transport to a location as directed by the Employer	No	1	
B.	Civil Works			
	Building works for connecting the Rotunda to the corridor sealing any water leakage	No	1	
2.8.3	Civil works for installation of the rotunda i.e. preparation of the ground.	No	1	
2.8.4	Installation of the new PBB, including hoisting	No	1	
2.8.5	Specialized welding where necessary	Sum		
C.	Mechanical Works			
2.8.6	Supply and install new canopy motor.	No	1	
2.8.7	Supply and install canopy shutter door with motor.	No	1	
2.8.8	Supply and install rotational shutter for the rotunda.	No	1	
2.8.9	Lubricate cabin drive motor for low noise running	Sum		
2.8.10	Check for cracks/damages on the service stairs and repair/ replace the cracked steps	Sum		
2.8.11	Supply and install new tires	No	1	
2.8.12	Greasing of the following:			
	i. Horizontal/vertical roller units.	Sum		
	ii. service door joints	Sum		
	iii. support roller units	Sum		
	iv. cabin drive chains	Sum		
	v. drag bearing (slewing rim) for pillow piece, complete	Sum		
	vi. guiding rollers for stairs	Sum		

Item	DESCRIPTION	UNIT	QTY	RATE INCLUSIVE OF TAXES
2.8.13	Check gear motor (height control) for leakages/tightness (Repair all leakages by replacing the worn-out seals and pipes	Sum		
2.8.14	Check rotunda-grease centering frame pedestal bearing	Sum		
2.8.15	Check mechanical stress on the roller chains and adjust if necessary and grease the sum chain	Sum		
2.8.16	Check Locking system, assembly. Change if necessary.	Sum		
2.8.17	Replace canopy ropes.	Sum		
2.8.18	Replace short and long tension springs.	Sum		
2.8.19	Repair all cabin doors, and all panel doors and change their locks	Sum		
2.8.20	Paint the PBB using marine pain and sealing all leakages by welding.	Sum		
2.8.21	Allow for vigorous testing on all functionalities by users and engineers	Sum		
D.	Electrical & Control System Works			
2.8.22	Supply and install control panel components as per specification 2.2 above but for 1no. passenger boarding bridge	Sum		
2.8.23	Supply and install electrical items as per specification 2.3 above but for 1no. passenger boarding bridge	Sum		
	Total			

SECTION VIII: STANDARD FORMS

FORM OF TENDER	82
APPENDIX TO FORM OF TENDER.....	84
STATEMENT OF FOREIGN CURRENCY REQUIREMENTS.....	85
FORM OF TENDER SECURITY.....	86
TENDER QUESTIONNAIRE.....	87
CONFIDENTIAL BUSINESS QUESTIONNAIRE	88
LITIGATION HISTORY.....	90
SELF-DECLARATION FORM	91
MANUFACTURER'S AUTHORISATION FORM.....	92
LETTER OF NOTIFICATION OF AWARD.....	93
LETTER OF ACCEPTANCE	94
PERFORMANCE BANK GUARANTEE (UNCONDITIONAL).....	95
FORM OF AGREEMENT.....	96
CERTIFICATE OF TENDERER'S VISIT TO SITE.....	98

FORM OF TENDER

TO: Managing Director
Kenya Airports Authority
P.O. Box 19001-0050, Nairobi

Date: _____

Dear Sir,

1. Having examined the tender documents including Addenda Nos. _____ [insert numbers] the receipt of which is hereby duly acknowledged, in accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of _____ [Amount in figures]

_____ [Amount in words]
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Employer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender for **one twenty (120) days** after tender opening, and it shall remain binding upon us and may be accepted at any time before that date.
4. 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.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20____

Signature _____ in the capacity of _____

duly authorized to sign tenders for and on behalf of _____

_____ [Name of Employer]

of _____ [Address of Employer]

Witness;

Name _____

Address _____

Signature _____

Date _____

APPENDIX TO FORM OF TENDER

(This appendix forms part of the tender)

CONDITIONS OF CONTRACT	AMOUNT
Tender Security	Kshs.1,000,000.00
Amount of Performance Security	Ten percent of Tender Sum in the form as defined in the appendix to Instructions to Tenderers
Program to be submitted	Not later than fourteen days after issuance of Order to Commence
Minimum amount of Third Party Insurance	Kshs. 5,000,000.00
Period for commencement, from the Engineer's order to commence	Within seven (7) days
Time for completion	Twenty four (24) weeks
Amount of liquidated damages	Amount for each day of delay: 0.15 %
Limit of liquidated damages	10% of Contract Value
Defect Liability period	One (1) calendar year subject to Clause 30.4 of the Conditions of Contract
Percentage of Retention	5% of Interim Payment Certificate
Limit of Retention Money	5% of Contract Price
Minimum amount of interim certificates	Contract value/Time for completion in months
Time within which payment to be made after Interim Payment Certificate signed by Engineer	Within 30 days after certification
Time within which payment to be made after Final Payment Certificate signed by Engineer	Within 30 days after final measurements of works and certification
Appointer of Arbitrator	Chief Justice of The Republic of Kenya
Notice to Employer and Engineer	<p>The Employers address is: Managing Director Kenya Airports Authority P. O. Box 19001 00501 <u>NAIROBI</u></p> <p>The Engineer's address is: General Manager (P & ES), Kenya Airports Authority P. O. Box 19001 00501 <u>NAIROBI</u></p>

Signature of Tenderer.....Date

STATEMENT OF FOREIGN CURRENCY REQUIREMENTS

(See Clause 35 of the Conditions of Contract)

In the event of our Tender for the execution of
.....
..... (name of Contract)
being accepted, we would require in accordance with Clause 21 of the Conditions of Contract, which is attached hereto, the following percentage:

(Figures)
(Words)
.....
of the Contract Sum, (Less Fluctuations) to be paid in foreign currency.

Currency in which foreign exchange element is required:

.....

Date: The Day of 20

- Notes:
- a) Enter 0% (zero percent) if no payment will be made in foreign currency.
 - b) Maximum foreign currency requirement shall be thirty percent (30%) of the Contract Sum in accordance with Clause 11.2 of the Instructions to Tenderers.
 - c) Tenderers must enclose with their tenders, a brief justification of the foreign currency requirements stated in their tenders in accordance with Clause 11.4 of the Instructions to Tenderers.

(Signature of Tenderer)

FORM OF TENDER SECURITY

WHEREAS (hereinafter called “the Tenderer”) has submitted his tender dated for the construction of
..... (name of Contract)

KNOW ALL PEOPLE by these presents that WE having our registered office at(hereinafter called “the Bank”), are bound unto(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this Day of20.....

THE CONDITIONS of this obligation are:

1. If after tender opening the tenderer withdraws his tender during the period of tender validity specified in the instructions to tenderers
Or
2. If the tenderer, having been notified of the acceptance of his tender by the Employer during the period of tender validity:
 - (a) fails or refuses to execute the form of Agreement in accordance with the Instructions to Tenderers, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;
 - (c) rejects a correction of an arithmetic error in the tender.

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the said date.

[date]

[signature of the Bank]

[witness]

[seal]

TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer

.....

2. Full address of tenderer to which tender correspondence is to be sent (unless an agent has been appointed below)

.....

3. Telephone number (s) of tenderer

.....

4. Telex address of tenderer

.....

5. Name of tenderer's representative to be contacted on matters of the tender during the tender period

.....

6. Details of tenderer's nominated agent (if any) to receive tender notices. This is essential if the tenderer does not have his registered address in Kenya (name, address, telephone, telex)

.....

.....

Signature of Tenderer

Make copy and deliver to: _____ (Name of Employer)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part 1 – General

Business Name _____

Location of business premises; Country/Town _____

Plot No _____ Street/Road _____

Postal Address _____ Tel No _____

Nature of Business _____

Current Trade License No _____ Expiring date _____

Maximum value of business which you can handle at any time: K. pound _____

Name of your bankers _____

Branch _____

Part 2 (a) – Sole Proprietor

Your name in full _____ Age _____

Nationality _____ Country of Origin _____

*Citizenship details _____

Part 2 (b) – Partnership

Give details of partners as follows:

	<i>Name in full</i>	<i>Nationality</i>	<i>Citizenship Details</i>	<i>Shares</i>
1			
2			
3			

Part 2(c) – Registered Company:

Private or public.....

State the nominal and issued capital of the Company-

Nominal Kshs.....

Issued Kshs.....

Give details of all directors as follows:

Name in full . Nationality. Citizenship Details*. Shares.

1.
.....

2.
.....

3.
.....

4.
.....

Part 2(d) – Interest in the Firm:

Is there any person / persons in (Name of Employer) who has interest in this firm? Yes/No..... (Delete as necessary)

I certify that the information given above is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

* Attach proof of citizenship

LITIGATION HISTORY

Name of Firm or Partner of a joint venture _____

Firms, including each of the partners of a joint venture, should provide information on any history of litigation or arbitration resulting from contracts executed in the last five years or currently under execution. A separate sheet should be used for each partner of a joint venture

Date (month and year)	Award FOR or AGAINST Firm	Name of client, cause of litigation and matter in dispute	Disputed amount (Current value, Kshs.)

Seal/Signature of Candidate

Date

SELF-DECLARATION FORM

I. ANTI-CORRUPTION DECLARATION

We (insert the name of the company / supplier) _____ declares and guarantees that no offer, gift or payment, consideration or benefit of any kind, which constitutes an illegal or corrupt practice, has been or will be made to anyone by our organization or agent, either directly or indirectly, as an inducement or reward for the award or execution of this procurement.

In the event the above is contravened we accept that the following to apply:

- a) The person shall be disqualified from entering into a contract for the procurement;
or
- b) If a contract has already been entered into with the person, the contract shall be voidable at the option of KAA.
- c) The voiding of a contract by the procuring entity under subsection (b) does not limit any other legal remedy That KAA may have.

Name _____ Signature _____ Date _____

Company Seal / Business Stamp

2. ANTI-FRAUDULENT PRACTICE DECLARATION

We (insert the name of the company / supplier) _____ declares and guarantees that no person in our organization has or will be involved in a fraudulent practice in any procurement proceeding.

Name _____ Signature _____ Date _____

Company Seal / Business Stamp

3. NON - DEBARMENT DECLARATION

We (insert the name of the company / supplier) _____ declares and guarantees that no director or any person who has any controlling interest in our organization has been debarred from participating in a procurement proceeding.

Name _____ Signature _____ Date _____

Company Seal / Business Stamp

MANUFACTURER'S AUTHORISATION FORM¹

To:

RE: _____

WHEREAS _____ [Name of the
Manufacturer] who are established and reputable manufacturers of

_____ and accessories, 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 _____ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the Instructions to Bidders for the
goods offered for supply by the above firm against the Invitation to Bidders.

[Signature and Seal for and on behalf of Manufacturer]

¹ This letter of authorization should be on the letterhead of the manufacturer and should be signed by a person competent and having the Power of Attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

LETTER OF NOTIFICATION OF INTENTION TO ENTER INTO A CONTRACT

Address of Procuring Entity

To: _____

RE: Tender No. _____

Tender Name _____

This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

1. Please acknowledge receipt of this letter of notification signifying your acceptance.
2. The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.
3. You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

(FULL PARTICULARS) _____

SIGNED FOR ACCOUNTING OFFICER

LETTER OF ACCEPTANCE

[letterhead paper of the Employer]

_____ [date]

To: _____
[name of the Contractor]

[address of the Contractor]

Dear Sir,

This is to notify you that your Tender dated _____
for the execution of _____
[name of the Contract and identification number, as given in the Tender documents] for the
Contract Price of _____ [amount in figures]
_____ (amount in words)] in accordance with the
Instructions to Tenderers is hereby accepted.

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

Authorized Signature _____

Name and Title of Signatory _____

Attachment: Agreement

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To: _____ (Name of Employer) _____ (Date)
_____ (Address of Employer)

Dear Sir,

WHEREAS _____ (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ (hereinafter called "the Works");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ (amount of Guarantee in figures)

_____ (amount of Guarantee in words), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of

_____ (amount of Guarantee in words) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change, addition or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any change, addition, or modification.

This guarantee shall be valid until the date of issue of the Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

FORM OF AGREEMENT

THIS AGREEMENT, made the _____ day of _____ 20____ between _____ of [or whose registered office is situated at] _____ (hereinafter called “the Employer”) of the one part AND _____ of [or whose registered office is situated at] _____ (hereinafter called “the Contractor”) of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

_____ (name and identification number of Contract) (hereinafter called “the Works”) located at _____ [Place/location of the Works] and the Employer has accepted the tender submitted by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of Kshs _____ [Amount in figures], Kenya Shillings _____ [Amount in words].

NOW THIS AGREEMENT WITNESSETH 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 shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Performance Security
 - (iii) Form of Tender
 - (iv) Conditions of Contract Part I
 - (v) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (vi) Specifications
 - (vii) Drawings
 - (viii) Priced Bills of Quantities
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 any defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, 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 thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

(ii) Name _____

Address _____

Signature _____



CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that I _____
(Name of bidder or his representative)

of the firm of, _____
(Name of Firm bidding)

In the company of, _____
(Name of KAA representative conducting the visit)

Visited the site in connection with tender for:

REHABILITATION OF PASSENGER BOARDING BRIDGES AT MOI INTERNATIONAL AIRPORT, TENDER NO. KAA/ES/MIA/ /

Having previously studied the tender documents,

1. I have carefully examined the site.
2. I have made myself familiar with all the local conditions likely to influence the works, cost thereof and I am fully aware that all work will be done while the areas remain in use.
3. I further certify that I am satisfied with the description of the work and the explanations given by the Client's representative and that I understand perfectly the work to be done as specified and implied in the execution of the contract.

On behalf of Bidder

Signed Date.....

On behalf of Kenya Airports Authority

Signed Date.....