



PROCUREMENT OF HARDWARE & SOFTWARE

**WITH ALL ACCESSORIES, OPERATING SYSTEM, SOFTWARE,
AFTER-SALES SERVICES, INSTALLATION, TESTING,
COMMISSIONING AND MAINTENANCE**

February 2020

Bidding Documents



**NATIONAL ENGINEERING SERVICES PAKISTAN, PVT. LTD.
WATER & AGRICULTURE DIVISION
1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE, PO BOX 54700**

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1) INSTRUCTIONS TO BIDDERS

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INSTRUCTIONS TO BIDDERS

A. GENERAL

IB.1 Scope of Bid

The Employer, as defined in the Bidding Data, (hereinafter called “the Employer”), wishes to receive Bids for the Procurement of hardware & software with all accessories, Operating System, software, after-sales services, installation, testing, commissioning, maintenance and requisite operational training as described in these Bidding Documents and summarized in the Bidding data hereinafter referred to as “Works”.

IB.2 Source of Funds

The Employer has arranged funds from its own sources.

IB.3 Eligible Bidders

This Invitation for Bids is open to all bidders (Manufacturers, Distributors, Resellers Authorized dealers and Importers) meeting the requirements specified in the Bidding Data.

IB.4 One Bid per Bidder

Each bidder shall submit only one bid for any one of the two LOTs or both LOTs either by himself or jointly. A bidder who submits or participates in more than one bid shall be disqualified.

IB.5 Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of its bid and the Employer in no case will be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

IB.6 Contents of Bidding Documents

In addition to Invitation for Bids, the Bidding Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Sub-Clause IB.8.

1. Instructions to Bidders
2. Bidding Data
3. Forms of Bid (Form of Technical Bid & Form of Price Bid)
4. Appendix-A to Bid- Bidder’s Qualification and Technical Evaluation Criteria
5. Appendix B to Bid- Schedule of Prices
6. Term and Conditions of Contract
7. Special Conditions
8. Standard Forms
9. Technical Specifications

IB.7 Clarification of Bidding Documents

- 7.1 A prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Employer at the Employer's address indicated in the Bidding Data.
- 7.2 The Employer will respond to written request for clarification, which he receives earlier than five (5) days prior to the deadline for the submission of Bids. Copies of the Employer's response (if any) will be uploaded at <http://nespak.com.pk/Advertisement.html>, three (3) days prior to deadline for submission of Bids

IB.8 Amendment of Bidding Documents

- 8.1 At any time prior to the deadline for submission of Bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.
- 8.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 8.1 hereof, and shall be uploaded at <http://nespak.com.pk/Advertisement.html>.
- 8.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may at its discretion extend the deadline for submission of Bids.

C. PREPARATION OF BIDS

IB.9 Language of Bid

The bid prepared by the bidder and all correspondence and documents relating to the Bid, exchanged by the bidder and the Employer shall be written in English language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

IB.10 Documents Comprising the Bid

The bid prepared by the bidder shall comprise the following components:

- (a) Covering Letter
- (b) Single envelope submitted, comprising “**Technical Bid**” and “**Price Bid**” (one original one copy), containing the documents listed in Bidding Data.
- (c) Form of Bid duly filled, signed and sealed, in accordance with Sub-Clause IB.16.3.
- (d) Schedule of Prices (Appendix B to Bid) duly filled and initialled, in accordance with the instructions contained therein & in accordance with Sub-Clause IB.16.3
- (e) Bid Security furnished in accordance with Clause IB.15

- (f) Power of Attorney in accordance with Sub-Clause IB 16.5
- (g) Documentary evidence in accordance with Clause IB.13
- (h) Documentary evidence in accordance with Clause IB.14

IB.11 Sufficiency of Bid

- 11.1 Each bidder shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid and of the rates and prices entered in the Schedule of Prices, which rates and prices shall except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper completion of the order.
- 11.2 The bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract.

IB.12 Bid Prices, Currency of Bid and Payment

- 12.1 The bidder shall fill up the Schedule of Prices (Schedule B to Bid) indicating the unit rates and prices. Prices in the Schedule of Prices shall be entered keeping in view the instructions contained in the Preamble to Schedule of Prices.
- 12.2 Unless otherwise stipulated in the Terms and Conditions of Contract, prices quoted by the bidder shall remain fixed during the bidder's performance of the Contract and not subject to variation on any account.
- 12.3 The unit rates and prices in the Schedule of Prices shall be quoted by the bidder in the currency as stipulated in Bidding Data.

IB.13 Documents Establishing Bidder's Eligibility and Qualifications

- 13.1 Pursuant to Clause IB.10, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to supply the order, if its bid is accepted.
- 13.2 Bidder/Manufacturer must possess and provide evidence of its capability, performance and the experience and the Qualification Criteria included in the Bidding Documents.

IB.14 Documents Establishing Works' Conformity to Bidding Documents

- 14.1 The documentary evidence of the Works' conformity to the Bidding Documents may be in the form of literature, figures and tables and the bidder shall furnish documentation as set out in the Bidding Data.
- 14.2 The bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers, if any, designated by the Employer in the Technical Provisions are intended to be descriptive only.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his Price Bid, at the option of the bidder, a Bid Security in the amount stipulated in Bidding Data in Pak. Rupees in the form of Call Deposit or a Bank Guarantee in favour of the Employer valid for a period up to twenty-eight (28) days beyond the bid validity date.
- 15.2 Any Bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 15.3 The bid securities of unsuccessful bidders will be returned upon award of contract to the successful bidder or on the expiry of validity of Bid Security whichever is earlier.
- 15.4 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security, pursuant to Clause IB.28 and issued the Purchase order, pursuant to Sub-Clause IB.27.2.
- 15.5 The Bid Security may be forfeited:
 - (a) If a bidder withdraws his bid during the period of bid validity; or
 - (b) If a bidder does not accept the correction of his Bid Price, pursuant to Clause IB.22 hereof; or
 - (c) In the case of a successful bidder, if he fails to:
 - (i) Furnish the required Performance Security in accordance with Clause IB.28, or
 - (ii) Issuance of the Purchase order, in accordance with Sub-Clauses IB.27.2.

IB.16 Validity of Bids, Format, Signing and Submission of Bid

- 16.1 Bids shall remain valid for the period stipulated in the Bidding Data after the date of bid opening.
- 16.2 All Appendices to Bid are to be properly completed and signed.
- 16.3 No alteration is to be made in the Forms of Bid (i.e., Form of Technical Bid & Form of Price Bid) except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.
- 16.4 Each bidder shall prepare one original and one copy specified in the Bidding Data of the documents comprising the bid as described in Clause IB.10 and clearly mark them "ORIGINAL" and "COPY" as appropriate.
- 16.5 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign. This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the bidder to act for and on behalf of the bidder. All pages of the bid shall be initialled and official seal be affixed by the person or persons signing the bid.
- 16.6 The Bid shall be delivered in person or sent by registered mail at the address to Employer as given in Bidding Data.

D. SUBMISSION OF BID

IB.17 Deadline for Submission, Modification & Withdrawal of Bids

- 17.1 Bids must be received by the Employer at the address/provided in Bidding Data not later than the time and date stipulated therein.
- 17.2 Bids submitted through telegraph, telex, fax or e-mail shall not be considered.
- 17.3 Any bid received by the Employer after the deadline for submission prescribed in Bidding Data will be returned unopened to such bidder.
- 17.4 Any bidder may modify or withdraw his bid after bid submission provided that the modification or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.
- 17.5 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Forms of Bid may result in forfeiture of the Bid Security pursuant to Sub-Clause IB.15.5 (a).

E. BID OPENING AND EVALUATION

IB.18 Bid Opening, Clarification and Evaluation

- 18.1 All the bids will be opened and evaluated by procurement Committee constituted for this purpose by the Employer. Bids shall be opened at the time of opening of bids.
- 18.2 a) The Employer shall first examine qualification and experience Data as per Appendix A to Bid submitted by the Bidder. The technical proposal examination of those bidders only shall be taken in hand who meet the minimum requirement as mentioned in Appendix A to Bid.

b) The Employer shall examine the Technical Bids to confirm that all the documents have been provided, and to determine the completeness of each document submitted in accordance with Technical Specification provided in the Bidding Documents.
- 18.3 The Employer shall confirm that all the documents and information have been provided for evaluation of Technical Bids as required under the Bidding Documents.
- 18.4 At the end of the evaluation of the Technical Bids, the Employer will consider only those bidders who have submitted substantially responsive.
- 18.5 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being substantially non-responsive to the requirements of the Bidding Document and return their Price Bids who are determined as being non-qualified.

IB.19 Process to be Confidential

- 19.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a Contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report which shall be done at least ten (10) days prior to issue of Letter of Acceptance. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas any bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation report; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

IB.20 Clarification of Bids

- 20.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids.
- 20.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its bid may be rejected.

IB.21 Examination of Bids and Determination of Responsiveness

- 21.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.
- 21.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security; (iv) Includes duly filled and signed Forms of Bids and (v) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the Works; (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the bidder's obligations under the Contract; (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids. Only substantially responsive bid shall be considered for further evaluation.
- 21.3 If a bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming

deviation or reservation. The employer may, however, seek confirmation/ clarification in writing which shall be responded in writing.

IB.22 Correction of Errors

22.1 Technical Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors during the evaluation process of Price Bids. Errors will be corrected by the Employer as follows:

- (a) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (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 govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.

22.2 The amount stated in the Form of Price Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with 15.5(b) hereof.

IB.23 Evaluation and Comparison of Bids

23.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.21.

23.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:

- (a) Making any correction for errors pursuant to Clause IB.22;

23.3 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Schedule of Prices to demonstrate the internal consistency of those prices with the construction method and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause IB.28 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

F. AWARD OF CONTRACT

IB.24. Post Qualification

- 24.1 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in bidder's capacities, may require the bidder to provide information concerning their professional, technical, financial, legal or managerial competence whether already qualified or not:

Provided that such qualification shall only be laid down after recording reasons, therefore, in writing. They shall form part of the records of that bid evaluation report.

- 24.2 The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidders' qualifications submitted under Clause IB.11, as well as such other information required in the Bidding Documents.

IB.25 Award Criteria

- 25.1 Subject to Clauses IB.26, the Employer will award the Contract to the bidder who bid has submitted substantially responsive Technical Bid and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 25.2.

- 25.2 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in Bidder's capacities, may require the Bidders to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons in writing. They shall form part of the records of that bid evaluation report.

IB.26 Employer's Right to accept any Bid and to reject any or all Bids

- 26.1 Notwithstanding Clause IB.25, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

IB.27 Issuance of the Purchase Order

- 27.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his bid has been accepted.
- 27.2 Within seven (07) days from the date of furnishing of acceptable Performance Security under the Term and Conditions of Contract, the Employer will send the successful bidder the purchase Order.



IB.28 Performance Security

- 28.1 The successful bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Term and Conditions of Contract within a period of three (03) days after the receipt of Letter of Acceptance/ Letter of Award.
- 28.2 Failure of the successful bidder to comply with the requirements of Sub-Clauses IB.27.2 or 28.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.



2) *BIDDING DATA*

BIDDING DATA

The following specific data for the Works to be bid shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Reference to Instruction to Bidder	BIDDING DATA
IB.1	<p>Scope of Bid: The Employer is required to purchase hardware & software including all accessories, Operating System, Software, after-sales services, installation, testing, commissioning and maintenance along with technical documentations as per employer's requirement.</p> <p>Name and Address of the Employer: National Engineering Services Pakistan (NESPAK) (Pvt.) Ltd. NESPAK House, 1-C, Block-N, Model Town Extension, Lahore 54700, Pakistan</p> <p>Employer's Representative: General Manager /Head, W&A Division, 2nd Floor, NESPAK House, 1-C, Block-N, Model Town Extension, Lahore 54700, Pakistan Email: wa@nespak.com.pk</p>
IB.2	<p>Source of Funds: The Employer has arranged funds from its own sources.</p>
IB.3	<p>Eligible Bidders Bidding is open to all Manufacturers/Distributors/Resellers/Importers/Authorized dealers of hardware & software meeting the following minimum requirements:</p> <ol style="list-style-type: none"> a) Registration with Income Tax and Sales Tax departments. b) Manufacturer authorization letter and Tier-I partnership certificate. c) Should have annual turnover of Pak Rs.15 million during the last three financial years. d) Should have completed at least two (2) contracts of similar nature in last 3 years (along with the completion certificate). e) Only brands/Manufacturers/Distributors/Resellers/Importers/Authorized dealers of hardware & software having at least 5 years' experience of supplying said items will be considered for technical evaluation. f) No litigation and no black listing certificate

IB-7 7.1	Clarification of Bidding Documents All communications regarding clarification of the bids shall be in writing. Any clarification regarding bid shall be requested through email (wa@nespak.com.pk) at least 7 days before bid submission date.
IB.9	Language of Bid English.
IB.12 12.3	Currencies of Bid and Payment The rates shall be quoted in Pak Rupees inclusive of all taxes. A bidder expecting to incur expenditures in other currencies for inputs to the works supplied from outside the Employer's country shall bear all costs and risks for arranging the requirements of such currencies through his own resources. The currency of Payment is Pak Rupees.
IB.15 15.1	Amount of Bid Security Amount of Bid Security shall be @ 2% of the Bid Price.
IB.16 16.1	Validity of Bids Period of Bid Validity is 120 days after the date of bid opening.
IB-17	Deadline for Submission, Modification & Withdrawal of Bids Time and date of Bid submission is 11:00 AM on March 02, 2020 . If in any case/scenario the last date of submission is declared a public holiday the next working day shall be considered the deadline for submission of bids.
IB.18	Bid Opening Technical & Price Bids will be opened on 11:30 AM on March 02, 2020 in the presence of bidders or their authorized representatives who may choose to attend.
IB.25	Award Criteria The evaluated technically responsive bidder who has offered the lowest evaluated Bid Price shall be awarded the Contract.
IB.28	Performance Security The Performance Security (unconditional bank guarantee) shall be of an amount equal to 10% of the Contract Price stated in the Letter of Acceptance. The format of such guarantee has been provided in the Bidding Documents.



3) FORMS OF BID

- i) Form of Technical Bid**
- ii) Form of Price Bid**



i) FORM OF TECHNICAL BID



FORM OF TECHNICAL BID

Bid Reference No. _____

.....

**PROCUREMENT OF HARDWARE & SOFTWARE
WITH ALL ACCESSORIES, OPERATING SYSTEM, SOFTWARE,
AFTER-SALES SERVICES, INSTALLATION, TESTING,
COMMISSIONING AND MAINTENANCE**

To:

General Manager/Head,
W&A Division, 2nd Floor,
NESPAK House,
1-C, Block-N, Model Town Extension,
Lahore 54700, Pakistan
Email: wa@nespak.com.pk

Gentleman,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Terms and Conditions of Contract, Technical Specifications, Appendices to Bid, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named works, we, the undersigned, being a company doing business under the name of and address _____ and being duly incorporated under the laws of Islamic Republic of Pakistan hereby offer to execute and complete such works and remedy any defects therein in conformity with the said Documents including Addenda thereto.
2. We understand that all the Appendices attached here to form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we confirm that Bid Security in the amount equivalent to 2% of the Bid Price and valid for a period of twenty-eight (28) days beyond the bid validity date, is attached with Price Bid.
4. We undertake, if our Bid is accepted, to commence the works and to deliver and complete the whole of the works comprised in the Contract within the time(s) stated in Terms and Conditions of Contract.
5. We agree to abide by this Bid for the period of one hundred and twenty (120) days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Purchase Order is placed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We undertake, if our Bid is accepted, to execute the Performance Security specified under the Terms and Conditions of Contract for the due performance of the Contract.
8. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Works.



- 9. We do hereby declare that our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries [insert the nationality of the Bidder, including that of all parties that comprise the Bidder if the Bidder is a consortium or association, and the nationality of each Subcontractor and Supplier]
- 10. We, including any subcontractors or suppliers for any part of the Contract, do not have any conflict of interest.
- 11. We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process.
- 12. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer. (Please delete in case of Bid from a single firm).

Dated this _____ day of _____ 2020

Signature _____ in the capacity of _____ duly authorized to sign bids for and on behalf of _____

(Name of Bidder in Block Letters)

(Seal)

Address _____

Witness:

Signature _____

Name _____

Address: _____

Occupation/Position in Firm _____



ii) FORM OF PRICE BID



FORM OF PRICE BID

Bid Reference No. _____

.....

**PROCUREMENT OF HARDWARE & SOFTWARE
WITH ALL ACCESSORIES, OPERATING SYSTEM, SOFTWARE,
AFTER-SALES SERVICES, INSTALLATION, TESTING,
COMMISSIONING AND MAINTENANCE**

To:

General Manager/Head,
W&A Division, 2nd Floor,
NESPAK House,
1-C, Block-N, Model Town Extension,
Lahore 54700, Pakistan
Phone: 92-42-99090000 (Ext. 512 and 513), Fax: 92-42-99231940,
Email: wa@nespak.com.pk

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Terms and Conditions of Contract, Technical Specifications, Appendices to Bid, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named works, we, the undersigned, being a company doing business under the name of and address _____ and being duly incorporated under the laws of Islamic Republic of Pakistan hereby offer to execute and complete such works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price comprising of only local currency component of PKR. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said documents.
2. We understand that all the Appendices attached hereto form part of this Bid.
3. We undertake, if our Bid is accepted, to commence the works and to deliver and complete the whole of the works comprised in the Contract within the time(s) stated in Terms and Conditions of Contract.
4. We agree to abide by this Bid for the period of one hundred and twenty (120) days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Purchase Order is placed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
6. We undertake, if our Bid is accepted to execute the Performance Security as specified under the Terms and Conditions of Contract for the due performance of the Contract.
7. We understand that you are not bound to accept the lowest or any Bid you may receive.



8. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the works.
9. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer. (Please delete in case of Bid from a single firm).

Dated this _____ day of _____ 2020
Signature _____ in the capacity of _____ duly
authorized to sign bids for and on behalf of _____

(Name of Bidder in Block Letters)

(Seal)

Address _____

Witness:

Signature _____

Name _____

Address: _____

Occupation/Position in Firm _____



4) APPENDIX-A TO BID

APPENDIX-A TO BID

BIDDER's QUALIFICATION/ TECHNICAL EVALUATION CRITERIA

Sr. No.	Requirement	Yes	No
1	Submitted Bid is in accordance with the Technical equipment Specifications/ requirements*		
2	Registration with Income Tax Department		
3	Registration with Sales Tax Department		
4	Manufacturer authorization letter and Tier-I partnership certificate.		
5	Annual turnover of Pak Rs.15 million during the last three financial years.		
6	Completed at least five (2) contracts of similar nature in last 3 years (along with the completion certificate).		
7	Bid Security @ 2 % of the Bid Price.		
8	Only brands/Manufacturers/Distributors/Resellers/Importers/Authorized dealers of hardware and/or software having at least 5 years' experience of supplying said items will be considered for technical evaluation.		
9	No litigation and no black listing certificate		

*Detailed component/ item wise evaluation will be carried out for each bid for acceptance or rejection.



5) APPENDIX-B TO BID

SCHEDULE OF PRICES

PREAMBLE TO SCHEDULE OF PRICES

1. General

1.1 The Schedule of Prices shall be read in conjunction with the Terms and Conditions of Contract, Instruction to Bidders, Bidding Data together with the Technical Specifications and tables, (if any).

1.2 Bids must be for the complete Scope of Work.

2. Description

2.1 The general directions and descriptions of works and materials are not necessarily repeated nor summarized in the Schedule of Prices. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the Schedule of Prices.

3. Units & Abbreviations

3.1 Units of measurement, symbols and abbreviations expressed in the Bidding Documents shall comply with the System International Unites (SI Units).

4. Rates and Prices

4.1 Except as otherwise expressly provided under the Term and Conditions of Contract, the rates and amounts entered in the Schedule of Prices shall be the rates at which the Bidder shall be paid and shall be the full inclusive value of the works set forth or implied in the Contract.

4.2 Unless otherwise stipulated in the Bidding Documents, the rates and prices entered by the bidder shall not be subject to adjustment during the performance of the Contract.

4.3 All duties, taxes and other levies payable by the Contractor/ vendor shall be included in the rates and prices.

4.4 The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Schedule of Prices, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works and no separate payment will be made for those items.

The rates, prices and amounts shall be entered against each item in the Schedule of Prices. Any item against which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates and prices for other items in the Schedule of Prices.

Appendix-B to Bid

- 4.5 (a) The bidder shall be deemed to have obtained all information as to and all requirements related thereto which may affect the bid price.
- (b) The Contractor shall be responsible to make complete arrangements for the transportation to the Employer's designated place in Pakistan.
- 4.6 The Bidder shall provide for all parts of the works to be completed in every respect. Notwithstanding that any details, accessories, etc., required for the complete installation and satisfactory operation of the items, are not specifically mentioned in the Specifications, such details shall be considered as included in the Contract Price.

5. Bid Prices

5.1 Break-up of Bid Prices

The various elements of Bid Prices shall be quoted as detailed by the Employer in the format of Schedule of Prices.

The bidder shall recognize such elements of the costs which he expects to incur in the performance of the works and shall include all such costs in the rates and amounts entered in the Schedule of Prices.

5.2 Total Bid Price

The total of bid prices shall be entered in the Schedule of Prices.

PROCUREMENT OF HARDWARE & SOFTWARE
WITH ALL ACCESSORIES, OPERATING SYSTEM, SOFTWARE,
AFTER-SALES SERVICES, INSTALLATION, TESTING,
COMMISSIONING AND MAINTENANCE

SCHEDULE OF PRICES

LOT 1

Sr. No	Description	Unit	Qty.	Rate/Unit (Pak Rs.)	Total Amount incl. of Taxes (Pak Rs.)
1	Primary Site Servers	No.	02		
2	DR Site Server	No.	01		
3	Network Switches	No.	02		
4	Network Firewalls	No.	02		
5	Hyper Converged Infrastructure	Solution	01		
6	Network I/O Patch Cords	No.	30		
7	MS Windows Server Licenses	16 Core	2		
8	MS SQL Server License	4 Core	1		
9	Anti-Virus for Virtual Machine	No.	02		
9	External HDD (2TB)	No.	02		
TOTAL BID PRICE		Figure (Pak. Rs.)			
		Words (Pak. Rs.)			



**PROCUREMENT OF HARDWARE & SOFTWARE
WITH ALL ACCESSORIES, OPERATING SYSTEM, SOFTWARE,
AFTER-SALES SERVICES, INSTALLATION, TESTING,
COMMISSIONING AND MAINTENANCE**

SCHEDULE OF PRICES

LOT 2

Sr. No	Description	Unit	Qty.	Rate/Unit (Pak Rs.)	Total Amount incl. of Taxes (Pak Rs.)
1	Arc GIS Server	No.	01		
TOTAL BID PRICE		Figure (Pak. Rs.)			
		Words (Pak. Rs.)			



6) GENERAL CONDITIONS OF CONTRACT

GENERAL CONDITIONS OF CONTRACT

Terms and Conditions for Procurement of IT equipment are as follow:

- 1) “Employer” means the entity purchasing the Goods and Related Services, as specified in Special Conditions.
- 2) “Employer’s Country” is the country specified in Special Conditions.
- 3) “Goods” means all of the commodities, material, machinery and equipment, and/or other materials that the Contractor is required to supply to the Employer under the Contract.

4) **Language**

The Contract as well as all correspondence and documents relating to the Contract exchanged by the Bidder and the Employer, shall be written in the language specified in Special Conditions. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.

The Bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Contractor.

5) **Notices**

Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in Special Conditions. The term “in writing” means communicated in written form with proof of receipt.

6) **Governing Law**

The Contract shall be governed by and interpreted in accordance with the laws of the Employer’s Country, unless otherwise specified in Special Conditions.

7) **Commencement Date**

The time for Commencement is as specified in Special Conditions.

8) **Delivery and Completion Schedule**

The Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in Special Conditions.

9) **Commissioning**

On site startup / commissioning of the hardware & software in Pakistan by the bidder’s expert free of charge will be the responsibility of the Contractor.



10) **Warranty**

- i) The Contractor warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials and as per Technical Specifications provided in the Contract.
- ii) The Contractor further warrants that the Goods shall be free from defects arising from any act or omission of the Contractor or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the Employer's Country.
- iii) The warranty shall be valid for thirty-six (36) months or as quoted in the bid (whichever is higher) after the Goods, or any portion thereof as the case may be, have been delivered to and accepted by the Employer.
- iv) The Employer shall give notice to the Contractor stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Employer shall afford all reasonable opportunity for the Contractor to inspect such defects.
- v) Upon receipt of such notice, the Contractor shall, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Employer.

11) **Mode of Payment**

- a) The Contract Price shall be paid as under:
 - i. On successful delivery of Equipment 50% of the total Price
 - ii. After Installation, Testing, Commissioning 30% of the total Price
 - iii. Submission of Deployment and O&M documentation 20% of the total Price
- b) The time for making payment by the Employer to the Contractor is as specified in Special Conditions.
- c) The Performance Security of 10% shall be kept as retention money and will be released upon successful completion of the warranty period i.e. 36 months, subsequent to successful commissioning and testing (item a(ii) above), and as specified in the Special Conditions of the bidding document.
- d) The currency of payment is as specified in Special Conditions.

12) **Taxes and Duties**

For goods manufactured outside the Employer's Country, the Contractor shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Employer's Country.

For goods Manufactured within the Employer's country, the Contractor shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Employer.

13) **Performance Security**

- i) The Contractor shall, within three (03) days after the receipt of Letter of Acceptance/ Letter of Award, provide a performance security for the due performance of the Contract in the amount and form specified in Special Conditions.
- ii) The proceeds of the Performance Security shall be payable to the Employer as compensation for any loss resulting from the Contractor's failure to complete its obligations under the Contract.
- iii) The Performance Security shall be discharged by the Employer and returned to the Contractor as specified in Special Conditions.

14) **Taking Over Certificate**

- i) Taking over certificate shall be issued (within 30 days) after completion of warranty period (36 months) subsequent to successful installation and commissioning.

15) **Deployment Topology**

- i) The bidder must base their solution on the suggested deployment topology diagram, elicited in Section 10 (Page 47).

16) **Other Terms and Conditions**

The other conditions are as follow:

- The bidder will provide all the equipment on address mentioned in Section 2 - Bidding Data for Quality Assurance and transport to respective site at their own expense and responsibility for installation.
- The bidder will be responsible for the installation, testing and commissioning of the Primary site items at Primary Site (Islamabad).
- The bidder will be responsible for the installation, testing and commissioning of the DR site items at DR Site (Lahore).
- Bidder will be responsible for the installation and configuration of the Firewall / network switch as per the requirement of the project.
- Bidder will be responsible for the installation and configuration of HCI as per the requirements.
- All bidders are advised to comply strictly with the document specifications and no deviation is allowed.
- Technical evaluation will be carried out on LOT basis, separately for LOT-1 and LOT-2.
- Any omission to bid for an item or sub-items related to a main item shall be considered as incomplete bid for the entire group and may result in rejection of the bid.
- Bidder will be responsible for the transportation and accommodation of their team for the installation configuration and commissioning of said items at deployment site (Islamabad), DR Site and during the 3 years support and warranty period.
- Bidder will be responsible for the installation, configuration documentation supported by screenshots, screen recordings and detailed topology & diagram.



7) SPECIAL CONDITIONS OF CONTRACT

SPECIAL CONDITIONS OF THE CONTRACT

GCC Clause Reference	Description	Amendments
1	Employer's name and address	General Manager/Head, W&A Division, 2nd Floor, NESPAK House, 1-C, Block-N, Model Town Extension, Lahore 54700, Pakistan Phone: 92-42-99090000 (Ext. 512 and 513), Fax: 92-42-99231940, Email: wa@nespak.com.pk
2	Employer's Country	The Employer's country is: Islamic Republic of Pakistan
4	Language	The Language is English.
5	Notices	For notices , the Employer's address shall be: As specified under Item 1 above.
6	Governing Law	The governing law shall be the law of: Islamic Republic of Pakistan
7	Commencement Date	Immediately on issuance of Purchase Order / Award Letter to the Contractor.
8	Delivery Time	4 Weeks from the date of Commencement.
10	Warranty	The warranty shall remain valid for thirty-six (36) months after the issuance of Taking Over Certificate.
11	Time of Payment of Invoice Currency of Payment	30 days of submission of invoice to the Employer upon successful completion of respective obligations, up to satisfaction of the Employer, as specified under items a) i) & a) ii) of Clause 11 of G.C.C. PKR (Pak Rupees).
13	Time for furnishing Performance Security Amount of Performance Security Period of validity of Performance Security	Within three (03) days after the date of receipt of Letter of Award. 10% of Contract Price stated in the Letter of Acceptance/Award, in the form of unconditional, irrevocable Bank Guarantee from Schedule Bank of Pakistan acceptable to the Employer. 30 days from the date of Completion of Warranty Obligations after the Warranty Period.
14	Taking Over Certificate	Only One Certificate shall be issued. The Work shall be considered substantially completed if the whole of the work is completed to the satisfaction of the Employer.
16	Office Facilities, Accommodation etc.	Bidder shall be responsible for the transportation and accommodation of their team for the installation configuration and commissioning of said items at deployment site (Islamabad), DR Site and during the 3 years support and warranty period.



8) STANDARD FORMS

BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees. _____ (Rs. _____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto

_____ (hereinafter called the 'Employer') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for _____ (Particulars of Bid) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Employer, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Employer after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to Clause 15.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Employer the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Employer forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

Signature _____

1. _____

Name _____

Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

**FORM OF PERFORMANCE SECURITY
(Bank Guarantee)**

Guarantee No. _____

Executed on _____

Expiry date

Name of Guarantor (Bank) with address: _____

(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ (Name of Contract) for the _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

	_____ Guarantor (Bank)
Witness:	
1. _____	Signature _____
	Name _____
_____	Title _____
Corporate Secretary (Seal)	
2. _____	
_____	_____
Name, Title & Address	Corporate Guarantor (Seal)



9) TECHNICAL SPECIFICATIONS



TECHNICAL SPECIFICATIONS

LOT 1

1. Primary Site Servers (Quantity 02)

- Intel Xeon 2 x 8 Core Processors,
- 6 x 16GB RAM,
- 4x 2.4TB 10K SAS, 2 x 480 GB SSD, 2x M.2 Sticks 240GB,
- 4 x 1G Ports, 2x 10G Base-T Ports,
- Raid Controller,
- Rack mountable with rack rails, including all required network/power cables,
- 3 Years standard warranty with Professional Support: Next Business Day onsite service.
- Authorized letter from Manufacturer.
- Installation and deployment as per requirement.

2. DR Site Server (Quantity 01)

- Intel Xeon 2 x 8 Core Processors,
- 6 x 16GB RAM,
- 6 x 2.4TB 10K SAS, 2 x 480 GB SSD,
- 4 x 1G Ports,
- Raid Controller,
- Rack mountable with rack rails, including all required network/power cables,
- 3 Years standard warranty with Professional Support: Next Business Day onsite service.
- Authorized letter from Manufacturer.
- Installation and deployment as per requirement,

3. Network Switch (Quantity 02)

- Manageable,
- Static Routing,
- web/GUI based interface,
- 24x1G, 4 x 10GBE Uplinks Ethernet ports,
- Port Security,
- Access control lists feature supported,
- 3 years' Standard warranty with Professional Support: Next Business Day onsite service.
- Authorized letter from Manufacturer.
- Installation, Configuration & Deployment as per requirement.

4. Firewalls (Quantity 02)

- Must Have Minimum 1.7Gbps NGFW Throughput or More
- Must Have Unrestricted Concurrent User
- Must Have Minimum 64GB SSD Storage Capacity or More
- Must Have Minimum 4 x 1G Ethernet Interfaces
- Intrusion Prevention System (IPS)
- Advanced Persistent Threats (APT) Prevention
- Anti-Virus & Anti-Malware
- Email Security Protection
- Cloud-Based Security Sandbox
- URL Filtering, Application Control, Bandwidth Management
- 10 Sites Connection for IPsec VPN
- 30 Concurrent Users for SSL VPN
- 3 Years Security Licensing (IPS, Anti-Virus & Anti-Malware, URL Database, Application Database, Cloud-Based Security Sandbox)
- 3 Years Technical Support & Next Business Day Hardware Warranty Service
- Must Quote Principal Onsite Configuration & Installation



- Must Quote Principal Onsite Certification & Training
- Must Have Listed in 2018 and 2019 Gartner Magic Quadrant of Next Generation Firewall
- Must Have Capability to Work Without Interruption Even License Is Expired
- Authorized letter from Manufacturer.
- Installation and deployment as per requirement.

5. Hyper converged infrastructure

Primary Site Requirement (Total 04 Sockets + 1 Management Center)

- Installation, configuration and deployment as per requirement.
- Total 4 CPU Sockets for All HCI Components with Management Center
- HCI Components with Management Center, Virtualization Hypervisor and Virtual SAN
- 3 Years Software Upgrade & 24 x 7 Remote Technical Support
- Principal Onsite Configuration & Installation

Virtualization Management Software

- Must Support High Availability for Virtualization Management Platform
- Must Support Management for Existing VMware Virtual Machines
- Must Support Role-Based Management with Permission Control
- Must Support HTML5 Web Management
- Must Support Centralized Control & Visibility
- Must Support Future Scalability and Extension
- Must Support Scale Up Minimum 64 Nodes in the Future
- Must Support to Integrate with Multiple Hypervisors

Compute Virtualization Hypervisor

- Must Support High Availability Between Nodes
- Must Support VM Snapshot and VM Clone
- Must Support VM Resources Automated Hot-Add
- Must Support DRS (Distributed Resource Scheduler) and vMotion
- Must Support Distributed Switch by Using Cluster-Level Network Aggregation
- Must Support Hardware Health Check to Monitor CPU, Memory, Network Interface Card Hard Drive and RAID Controller
- Must Listed in Gartner Magic Quadrant of Hyper-Converged Infrastructure 2019

Storage Virtualization

- Must Be the Same Vendor as Compute Hypervisor
- Must Quote Maximum Edition with Full Features
- Must Support 2 Copies / 3 Copies Data Redundancy
- Must Support Data Striping Technology
- Must Support SSD Cache Technology
- Must Support SSD Data Tiering Technology
- Must Support Data Disk Balancing
- Must Support Data Rebuilding
- Must Support to Run Above Features with More Than 1000 Virtual Machines

Backup & Disaster Recovery Software Solution

- Must Support Full VM Level Backup
- Must Support to Backup More Than 1000 Virtual Machines
- Must Support Incremental Backup Technology & Difference Backup Technology
- Must Support Automated Schedule Backup (Weekly, Daily, Hourly and Secondly)
- Must Support Backup Repository to Internal Virtual Storage
- Must Support Backup Repository to External SAN Storage
- Must Support iSCSI, FC, Network File Sharing Protocol



- Must Support VM Recovery in Primary Site from Backup
- Must Support VM Recovery in Disaster Recovery Site from Backup
- Must Quote Continuous Data Protection (CDP) For 5 Critical Virtual Machines
- Must Support Agentless Backup with Continuous Data Protection (CDP)
- Must Support Data Recovery from Any Second in Past 3 Days With CDP

DR Site Requirement (Total 02 Sockets + 1 Management Center)

- Installation, configuration and deployment as per requirement.
- Total 2 CPU Sockets for Virtualization Hypervisor with Management Center
- 3 Years Software Upgrade & 24 x 7 Remote Technical Support
- Principal Onsite Configuration & Installation

Virtualization Management Software

- Must Support High Availability for Virtualization Management Platform
- Must Support Management for Existing VMware Virtual Machines
- Must Support Role-Based Management with Permission Control
- Must Support HTML5 Web Management
- Must Support Centralized Control & Visibility
- Must Support Future Scalability and Extension
- Must Support Scale Up Minimum 64 Nodes in the Future
- Must Support to Integrate with Multiple Hypervisors

Compute Virtualization Hypervisor

- Must Support High Availability Between Nodes
- Must Support VM Snapshot and VM Clone1
- Must Support VM Resources Automated Hot-Add
- Must Support DRS (Distributed Resource Scheduler) and vMotion
- Must Support Distributed Switch by Using Cluster-Level Network Aggregation
- Must Support Hardware Health Check to Monitor CPU, Memory, Network Interface Card, Hard Drive and RAID Controller
- Must Listed in Gartner Magic Quadrant of Hyper-Converged Infrastructure 2019

6. Network I/O Patch Cord (Quantity 30)

- 5-meter RJ45 standard Cat6 patch cords

7. Microsoft Windows Server (Quantity 02)

- Microsoft Windows Server Standard Edition 2016 or Higher
- 16-Core based license

8. Microsoft SQL Server (Quantity 01)

- Microsoft SQL Server Standard Edition 2017 or Higher
- 4-Core License

9. Anti-Virus (Quantity 02)

- Kaspersky Antivirus for Virtual machine

10. External HDD (Quantity 02)

- 2 TB External Hard disk USB 3.0
- 3 Years Warranty

LOT 2

1. Arc GIS Server (Quantity 01)

- Arc GIS Server 10.6 or Higher Standard License



10) DEPLOYMENT TOPOLOGY DIAGRAM

Deployment Topology Diagram

