

Volume-2

SECTION 6

BILL OF QUANTITIES

PREAMBLE

Bill of Quantities for Restoration Works:

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and are given to provide a common basis for bidding. The Contractor to measure the work under the observation and control of the Engineer, which shall be valued at the rates provided in the priced Bill of Quantities, where applicable, and otherwise at such rates as the Engineer may fix within the terms of the Contract, which shall form the basis for payments to the Contractor.
3. The rates in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all, transportation, insurance, administrative overheads, profit, taxes, and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. A rate shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates entered in the Bill of Quantities.
5. The costs of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities. Where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
6. General directions and descriptions of Supply and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering rates against each item in the priced Bill of Quantities.
7. The Bill of Quantities of the Supply is comprised of the various Bills of Supply.
8. Errors, if any, shall be corrected by Employer in terms of Clause 27 of ITB.

Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan.

Bill of Quantities

Supply of IT & Toll System Equipment for Implementation of Hybrid Eletronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan

Bill of Quantities

Sr. No.	Particulars	Make	Unit	Qty.	Rate ₹		Amount ₹		Warranty / Guarnatee Period	Delivery Period	Equipment Specification
					Figure	Word	Figure	Word			
(A) IT System / Equipment											
1	18" TFT Monitor with 5m long VGA Cable	LG/Samsung	No.	60		-					Technical Specification as per Supplementary Agreement of NHAI for ETC
2	Barcode Reader With Stand(2 D scanner) with 5m long USB baffo Cable.	Honeywell/Symbol and Zebra	No.	60		-					Technical Specification as per Supplementary Agreement/Latest Model
3	TMS Server with Hot standby Config. (With 42 U server rack & Switch Rack-As per Project Requirement)	HP / IBM (Lenovo)	No.	22		-					Technical Specification as per Supplementary Agreement. Server including 19" Monitor ,128GB RAM, 16 TB HDD, Intel 8C Silver ProcessorX2, 4 Network Port/Latest Windows Server OS/Redundant Power Supply/KVM Switch+Keyboard+Mouse, Data base licenses inclusive in server solution. (Server Rack should be make Valrack/HP-Heavy duty and Industrial grade with Latest features) Windows Server-2019 Standard Edition , Ms-Sql Server 2019 Standard Edition. 11 No. of rack shall be considered in pricing.
4	NAS	Netgear /QNAP / HP	No.	11		-					Rack Mounted Backup Device. Raid Configured. Useable space must be 32 TB.
5	Firewall With It's Services	FortiGate/Cyberrome	No.	11		-					Consider Dual auto switching of ISP with WIFI feature. Existing office network also inclusive. Specification Sheet attached as per NHAI.
6	55" LED Display for CCTV Monitoring with Switching facility of Screen(4 in 1 Input Display)	LG/Samsung	No.	11		-					Technical Specification as per Supplementary Agreement
7	Desktop System for Cahsup, LSDU,Admin, Reports & Validation	HP/Lenovo	No.	55		-					On site OEM warranty, Processor i7(9 Generation or latest)/8 GB RAM/1TB HDD/19" TFT/With latest Windows OS along with Licenses.
8	Barcode Reader With Stand(2 D scanner)	Honeywell /Symbol and Zebra	No.	10		-					Technical Specification as per Supplementary Agreement/Latest Model
9	TFT Monitor 18"	LG / Samsung	No.	5		-					Technical Specification as per Supplementary Agreement.
Sub Total - IT System / Equipment											
(B) Toll Systems											
1	Customized Industrial Grade Keyboard with 5m long Baffo Cable	Cherry / Possiflex-KB6600	No.	60		-					Technical Specification as per Supplementary Agreement. User friendly layout and special bigger keys for quick and easy operations along with 05 Meter USB Baffo Cable.
2	Violation Light & Alarm(On existing Pole) & Foot Switch in Booth with Panic Alarm system	Brisk or IDEAL/Dynatek	No.	60		-					Technical Specification as per Supplementary Agreement/latest Model
3	Customized Keyboard	Cherry/Possiflex	No.	10		-					Technical Specification as per Supplementary Agreement. User friendly layout and special bigger keys for quick and easy operations.
4	15 kVA with Minimum 4 Hr. of backup	APC / Emerson / Eton	No.	22		-					Technical Specification as per Supplementary Agreement/15 KVA with 04 Hour Backup, Load balancing and TVSS(Surge protection unit needed) including earthing and distribution of UPS source(DB Box with MCB) up to Lane Level.
Sub Total - Toll Systems											
Grand Total (A) + (B)											

Notes:-

- Brief of Specifications are provided against each BoQ Items, However, Bidder must follow attached Technical Specification at Volume – 3 prior to providing offer.
- Quoted rates are inclusive of GST as per ITB Clause 42.1 and other applicable taxes
- Item rate shall be inclusive of all material, manpower, equipment cost, royalties, insurance, administration cost transportation, etc.
- There shall not be any price adjustment on quoted rates irrespective of any change in basic prices of raw materials, fuel, labour & machinery etc.
- No changes in the item rates shall be considered irrespective of any changes in quantity for adjustment of variation.
- Delivery location shall be provided at the time of issuing Letter of Award.
- If required, Bidder is responsible to provide Site Support (Off Site / On Site) to the Employer during implementation of HETC and its commissioning. Expenses to be incurred for providing such support shall be borne by the Bidder.
- TDS, if applicable shall be deducted at the rates applicable as per prevailing norms of Income Tax Act from contractor's bills. For this purpose, Contractor shall submit necessary documents / details / information's as may be required to EMSL from time to time.
- The contractor shall be responsible for compliance as per prevalent Labour Laws including the labour cess compliances and its payment to Authority
- Above Bill of Quantities with rates shall be submitted on letterhead of the Bidder with signature of authorized signatory and company stamp.

SECTION 7

SECURITIES AND OTHER FORMS

SECTION 7: SECURITIES AND OTHER FORMS

Form – 7A	:	Form of Bid
Form – 7B	:	Bid Security (Bank Guarantee)
Form – 7C	:	Letter of Acceptance
Form – 7D	:	Deleted
Form – 7E	:	Deleted
Form – 7F	:	Deleted
Form – 7G	:	Deleted
Form – 7H	:	Bank Guarantee for Advance Payment
Form – 7I	:	Deleted

Forms of Securities

Acceptable forms of securities are annexed. Bidders should not complete Advance Payment Security forms at this time. Only the successful Bidder will be required to provide Advance Payment Securities in accordance with one of the forms, or in a similar form acceptable to the Employer.

FORM OF BID

Elsamex Maintenance Services Limited

25th Floor, GIFT 1 Tower, GIFT City
Gandhinagar, Gujarat – 382355

Gentlemen,

Sub.: Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan.

1. We offer to **Supply of IT & Toll System Equipment** described above in accordance with the Bidding Documents including Invitation for Bid, Instructions to Bidders, Conditions of Contract, Specifications and Drawings, Bill of Quantities, Annexures and Addenda for the Prices and sum mentioned in Annexure 1 of Section 6 of the Bidding Document attached with this letter. As per this, the Amount for **Supply of IT & Toll System Equipment** is ₹ _____ as per the sum total as given in Annexure 1 of Section 6.
2. We understand that you are not bound to accept the lowest or any Bid you receive.
3. Unless and until an Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us, but without prejudice to your right to withdraw such acceptance under the provisions of the Bid Document.
4. We assure you that the criteria based on which we were qualified are valid as of date.
5. We agree to abide by this Bid for the period of Sixty (60) days from the closing date of Bid Submission, and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
6. We understand that for this Bid, we shall comply with the Eligibility, Bid Validity and Bid Security required as stated in the Bidding documents. We attach herewith our current Income Tax clearance certificate.
7. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely “Prevention of Corruption Act 1988”.

Yours faithfully,

Authorized Signature:

Name & Title of Signatory:

Name of Bidder with official seal:

Address :

BID SECURITY (BANK GUARANTEE)

WHEREAS, _____ [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated _____ [date] for the works **“Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan”** (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that We _____ [name of bank] having our registered office at _____ (hereinafter called "the Bank") are bound unto EMSL (hereinafter called "the Employer") in the sum of _____ for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 2022

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid; or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of Bid validity:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) Deleted
 - (c) does not accept the correction of the Bid Price pursuant to Clause 27 of ITB;

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 any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including 45 days after the Bid validity period as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of

which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK

WITNESS _____ SEAL _____

[signature, name, and address]

(Letterhead paper of the Employer)

Letter of Acceptance

To: [name and address of the Contractor]

[date]

Sub.: Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan.

Dear Sirs,

1. It is hereby confirmed that your Bid received on _____ submitted to EMSL for the work mentioned in the subject above has been accepted for and on behalf of EMSL for an amount mentioned below on rates quoted by you and the terms and conditions as contained in Volume-1 and Volume-2 of bidding documents and subsequently addendum/corrigendum issued.
2. The accepted amount of the bid for the above-mentioned work as prescribed in the bidding documents is as under:

Particulars	Bid amount indicated by you (in ₹)	Amount of Bid after arithmetical corrections (in ₹)	Rebate offered	Bid Amount after Rebate (in ₹.)
Supply of IT & Toll System Equipment				
TOTAL				

3. The net accepted amount of the Bid is ₹_____ (₹ In words).
4. The date of start will be as defined in S. No. 5 of Contract Data.
5. The period of completion of whole work is as defined in S. No. 10 of Contract Data as Contract Completion Date.

Yours faithfully,

Authorized Signatory
Name and Title of Signatory
Name of Agency

Form – 7D
(Please refer Clause 32 of ITB)

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Form – 7F
(Please refer Clause 31 of ITB)

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FORM OF AGREEMENT

Agreement

GENTLEMEN

This agreement, made the _____ day of _____ 2022 between Elsamex Maintenance Services Limited (EMSL), 25th Floor, GIFT 1 Tower, GIFT City, Gandhinagar, Gujarat 382355, India (hereinafter called “the Employer” which expression shall unless the context otherwise requires, include its successors and assigns) of the one part and _____ [name and address of contractor] (hereinafter called “the Contractor” which expression shall unless the context otherwise requires, include its successors and assigns) of the other part.

Whereas Employer is desirous that Contractor to execute works “**Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan**” (Hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a contract price as given in this Contract.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. 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 aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein 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.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

- i) Letter of Acceptance;
- ii) Contractor's Bid;
- iii) Contract Data;
- iv) Conditions of Contract (including Special Conditions of Contract);
- v) Specifications;
- vi) Drawings; if any
- vii) Bill of Quantities
- viii) Any other document forming part of the Contract.

In witness whereof, the parties thereto have caused this Agreement to be executed the day and year first before written.

Signed, Sealed and Delivered by the said Employer through his authorized representative and the said Contractor through his Power of Attorney Holder:

FOR AND ON BEHALF OF
 Elismaex Maintenance Services Limited
 By

Witness:
 1) Signature _____

Name _____

Address _____

AUTHORIZED REPRESENTATIVE

2) Signature _____

Name _____

Address _____

FOR AND BEHALF OF
 M/s _____
 By

1) Signature _____

Name _____

AUTHORIZED REPRESENTATIVE

Address _____

2) Signature _____

Name _____

Address _____

BANK GUARANTEE FOR ADVANCE PAYMENT

To,
Elsamex Maintenance Services Limited,
25th Floor, GIFT 1 Tower, GIFT City,
Gandhinagar 3823355, Gujarat

Bank Guarantee No.-----dated ----- for ₹-----

WHEREAS vide the “**Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan**” Contract dated ----- (hereinafter referred to as “the Contract”), _____ [name of Contractor] a company incorporated under the Companies Act, 1956 and having its registered office at _____ (hereinafter referred to as the ‘Contractor’ which expression shall unless repugnant to or inconsistent with the context mean and include its successors and assigns) has been awarded by Elsamex Maintenance Services Limited (EMSL), 25th Floor, GIFT 1 Tower, GIFT City, Gandhinagar, Gujarat 382355, India, (hereinafter referred to as the ‘Employer’ which expression shall unless repugnant to or inconsistent with the context mean and include its successors and assigns), the contract for the works “**Supply of IT & Toll System Equipment for Implementation of Hybrid Electronic Toll Collection System (HETC) at Various Toll Plazas of RIDCOR in the State of Rajasthan**”.

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you an **Advance Payment Guarantee** security, at the time of forwarding a request for Advance payment, from a specified **nationalized/scheduled bank**, for the sum proposed to be released as Advance Payment in accordance with the terms and conditions of the Contract.

AND WHEREAS WE, _____ [name of Bank], a body corporate, constituted under [relevant Act] and having its head office at _____ and branch office at _____ have agreed to furnish an Advanced Payment Guarantee for a sum of ₹ _____ (**Rupees _____ Only**) (hereinafter referred as the guaranteed amount) as security for compliance of the Contractor’s obligations under the Contract;

NOW THEREFORE we hereby affirm that we, as the Guarantor, are responsible to you, on behalf of the Contractor for the guaranteed amount and we irrevocably undertake to pay you, upon your first written demand and without demur or argument, any sum or sums within the limits of the guaranteed amount as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified herein. The guaranteed amount shall be payable merely on demand by the Employer. Any certification or letter stating that

the amount claimed in the demand notice is due and payable, signed by a duly authorized official of the Employer to this effect, shall be final, binding, and conclusive upon us.

We hereby agree to pay on demand the guaranteed amount without demur by crediting to the Bank Account of the Employer, the details of which are to be informed to us by you during the validity of the guarantee.

We hereby undertake that this Guarantee is absolute, irrevocable, and unconditional and shall be enforceable against us notwithstanding any security or securities comprised in any instrument executed or to be executed by the Contractor in favor of the Employer.

We hereby also agree that this guarantee shall not be wholly or partially satisfied or exhausted by any payments made to or settled with the Employer by the Contractor and shall be valid and binding on us and operative until the expiry of this Guarantee.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under 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 such change, addition or modification.

The jurisdiction in relation to this Guarantee shall be the Courts at Ahmedabad and laws of India shall be applicable. This guarantee shall be valid up to 60 days beyond the period of stipulated completion period of delivery of all *IT & Toll System Equipment* _____ (*Expiry Date*). We hereby agree to renew and extend the validity of this Guarantee on request from you. Unless a demand or claim is lodged within the aforesaid time, i.e. Expiry Date, your rights under this Guarantee shall be forfeited and we shall not be liable there under.

WE hereby represent that there is no litigation or arbitration or other proceedings pending against us which could reasonably be expected to have a material adverse effect or change in our ability to perform our obligation under this Guarantee.

Notwithstanding anything contained herein:

- a) our liability under this Guarantee shall not exceed the guaranteed amount i.e. ₹ _____ (Rupees _____ Only)
- b) this guarantee shall be valid up to _____ (Expiry Date) and
- c) we shall be liable to pay the guaranteed amount under this Guarantee only and only if we receive a written claim or demand duly signed by a duly authorized official of the Employer before the _____ as mentioned above or any other extended date.

IN WITNESS WHEREOF we have executed this Guarantee on this ___ day of ___,
_____.

Signature

Date and place

Form – 7I
(Please refer Clause 48 of GCC)

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