



NATIONAL HIGHWAYS AUTHORITY OF INDIA
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS, GOVT. OF INDIA)

Name of the work: Providing & Installation of Additional ETC Equipments including shifting & re-installation of hardware's & equipments for Operation of Temporary toll plaza at Velampatti in the Project stretch of Avinashi - Tiruppur - Avinashipalayam Section (Km 0/000 to Km 31/800) of NH 381 in the State of Tamil Nadu.

Tender No. NHAI/PIU-CBE/O&M/Toll/NH-381/2023-24/004

DGM(T) & Project Director,
Project Implementation Unit - Coimbatore,
D.No.11/1, Kongu Nagar East, Ramanathapuram,
Coimbatore - 641 045
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August 2023

**Notice Inviting Quotations
(National Competitive Bidding)**

National Highways Authority of India (NHAI) hereby invites bids through quotations from experienced / relevant firms/ organizations / individual for Supplying of Electronic Toll Collection (ETC) equipments including shifting & re-installation of the certain equipments for the following sections of the National Highway:

Sl. No.	Section	Location	District / State	Estimated Cost (Rs. in Lakh)	Time for Completion	Cost of Bid Documents
1.	Providing & Installation of Additional ETC Equipments including shifting & re-installation of hardware's & equipments for Operation of Temporary toll plaza at Velampatti in the Project stretch of Avinashi - Tiruppur - Avinashipalayam Section (Km 0/000 to Km 31/800) of NH 381 in the State of Tamil Nadu	Velampatti Toll Plaza (Km 28/815)	Tiruppur Dt. / Tamil Nadu State	26.25 Lakhs (Including GST @18%)	30 days	Rs.5,000/- (Non-Refundable)

- I. The NIT shall be hosted in NHAI website and to be fixed in Notice Board of the Office of the Project Director, National Highways Authority of India.
- II. The detailed tender document can be viewed /downloaded from the website (www.nhai.gov.in) from 14.08.2023 (11:00 hrs) to 27.08.2023 (17:30 hrs) (availability of the tender document).
- III. The last date for submission of quotation / bid at NHAI PIU Coimbatore is on 28.08.2023 (upto 17:30 hrs)
- IV. The Tender shall be opened on 30.08.2023 at 11:00 hours.
- V. Authorized representative of the bidder shall participate during the bid opening.
- VI. The Technical & Financial bid should be submitted in a Separate sealed envelope. Both the envelope should put in one sealed cover by mentioning the name of work. It should be submitted within the due date & time.
- VII. The bid submitted beyond the date & time of submission will be rejected.
- VIII. The Cost of bid document is Rs.5000/- (non refundable) and it shall be in the form of Demand Draft in favour of "National Highways Authority of India", payable at Chennai, Tamil Nadu.
- IX. The Agency shall furnish an amount of Rs. 5000/- towards Earnest Money Deposit (EMD) and it shall be in the form of Demand Draft in favour of "National Highways Authority of India", payable at Chennai, Tamil Nadu.
- X. EMD of Successful bidder shall be converted into Performance Security and EMD amount of unsuccessful bidder shall be returned to the concerned bidder.

- XI. A Performance security of 3% of the Contract price shall be submitted by the Successful bidder on receipt of LoA from the NHAI. The validity of the performance security should be taken by the bidder as per the NHAI instruction.
- XII. Any corrigendum / addendum will be hosted in NHAI website if required.

Scope of Work:-

1. The bidder shall provide the following equipments for the Operation of Velampatti Toll Plaza by setting up of temporary toll plaza as per the direction of Engineer in Charge/ NHAI / Authorized representative of NHAI:-
 - I. AVCC (PIR - Image Processing Profiler)
 - II. User fee Display (UFD)
 - III. Plaza UPS - 6 KVA for plaza equipments
 - IV. Plaza UPS battery set
 - V. ICS Camera
2. The bidder has to carry out the following lump sum works for the Operation of Velampatti Toll Plaza as per the direction of Engineer in Charge/ NHAI / Authorized representative of NHAI:-
 - a) Existing Hybrid ETC Assets dismantling with labour including installation,
 - b) HETC assets - plaza & lane level cabling, networking, Installation, Commissioning of all equipment,
 - c) Internet shifting, installation & commissioning.
3. The bidder should submit the following along with the bid:-
 - A. Registration Certificate of the company / firm
 - B. GST Certificate
 - C. PAN in the name of firm / company
 - D. Relevant experience details / certificates for the last 3 years in same field
 - E. Power of attorney of the Signatory (if required)
 - F. Partnership deed in case of partnership firm
4. The list of equipments supplied by the existing system integrator is enclosed herewith as **Annexure A** and those equipments shall be transferred / to be shifted from existing plaza building to the portable cabin as provided by the NHAI as per the location as decided by NHAI within the toll plaza premises at Velampatti.
5. The L1 bidder shall be selected based on the competitive quotations and selected agency shall commence the work at site within 7 days from the date of issuance of work order / letter to proceed with the work.
6. The selected agency shall complete the work which is assigned, strictly by following the requirement of NHAI / MoRTH norms & relevant policy circulars.
7. The agency shall submit the work programme for the works planned in well advance to NHAI, on receipt of the work order.
8. Representative of NHAI, Representative of Independent Engineer of NHAI or any other person authorized by NHAI shall monitor & supervise the work assigned.

9. The work should be completed within a period of 30 days from the date of commencement. No further extension shall be given except any Force Majeure event (Political / Non political event).
10. The selected agency should co-ordinate with existing System Integrator for timely completion of the work assigned and co-operate with the System Integrator to enable the 100% successful functioning of the fee plaza.
11. In case, if any deficiency noticed in the provided items / works carried out by the agency, it should be corrected / new item to be replaced immediately upto the satisfaction of NHAI.
12. After the completion of all the awarded work, the clearance from System Integrator, Toll Expert of Independent Engineer of NHAI and toll agency (if appointed) shall be obtained by the agency.
13. The bidder should quote their rate as per the financial proforma provided. The rate should be inclusive of GST @18%. The bidder should quote their rates in Indian rupees.
14. The invoice shall be submitted on completion of all the works assigned and payment shall be made after the satisfactory report of concerned Engineer in Charge.
15. Minimum warranty of 3 years shall be given for the equipments as mentioned in Clause 1 of this Scope of work.
16. The necessary statutory deductions if any shall be deducted by the NHAI during the payment as per the applicable norms & rules. Initially, GST @18% amount will be withheld and the same will be reimbursed on submission of proof of evidence for the GST payment.
17. Indemnify NHAI against any damages / loss of property or personal by the bidder during the execution of the work.
18. The rate quoted by the bidder is inclusive of transportation, accommodation, installation, labour charges, etc., for the subject work. No additional payment other than the quoted / approved amount shall be paid to the bidder.
19. The bidder can conduct site visit before submission of their bid and in case of any query, the bidder may visit the PIU Coimbatore during working hours to clarify the same or send an email to the official email id.
20. The bidder should make their own safety arrangements during shifting, installation at the fee plaza.
21. The Salary, PF, ESI, etc., or any other dispute between bidder and the sub-agency / sub contractor engaged by bidder / person(s), it shall be the responsibility of the bidder. NHAI will not responsible for the issues and bidder should follow all the government norms for the work.
22. The necessary administrative support will be provided to the bidder by NHAI during the work.

23. The bidder shall be full responsible to provide security to their persons deputed at site including their insurances wherever required under the law or considered prudent.
24. The bidder should arrange required electrical power including uninterrupted power supply system for the execution of the work.
25. **Damages:-** Delay in commencement of assignments : Damages of Rs.5,000/- per day up to a maximum of Rs.1,00,000/- shall be imposed.

Bill of Quantity:-

Item No.	Description of Items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)	Remarks
A	Additional ETC Equipments for Temporary toll plaza					
1.	HETC Assets Plaza dismantling with labour	LS	1.00	50000.00	50000.00	
2.	HETC assets plaza & lane level cabling, networking, Installation, Commissioning of all equipment	LS	1.00	500000.00	500000.00	
3	Internet shifting, installation & commissioning	LS	1.00	35000.00	35000.00	
B	Additional equipments for Operation of Temporary toll plaza by replacing the existing equipments provided by DE NH Coimbatore (Outdated / non compatible equipments)					
4	AVC (PIR - Image Processing Profiler)	Nos.	8.00	140000.00	1120000.00	
5	User fee Display	Nos.	8.00	15000.00	120000.00	
6	Plaza UPS - 6 KVA for plaza equipments	Nos.	1.00	180000.00	180000.00	

7	Plaza UPS battery set	Nos.	1.00	56000.00	56000.00	
8	ICS Camera	Nos.	8.00	20500.00	164000.00	
			Sub Total (Rs.)		22,25,000/-	
			GST @18%		4,00,500/-	
			Total (Rs.)		26,25,500/-	
(Rupees Twenty Six Lakhs Twenty Five Thousands Five Hundred Only)						



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority Of India
(Ministry Of Road Transport & Highways Government Of India)



Financial bid form

Name of Work:- Providing & Installation of Additional ETC Equipments and shifting & re-installation of hardware's & equipments for Operation of Temporary toll plaza at Velampatti in the Project stretch of Avinashi - Tiruppur - Avinashipalayam Section (Km 0/000 to Km 31/800) of NH 381 in the State of Tamil Nadu.

BILL OF QUANTITIES (BOQ)

Item No.	Name of Work	Estimated value (Rs.)	Rate to be Quoted by the Bidder (Rs.)	
			In Figure	In Words
1	Providing & Installation of Additional ETC Equipments and shifting & re-installation of hardware's & equipments for Operation of Temporary toll plaza at Velampatti in the Project stretch of Avinashi - Tiruppur - Avinashipalayam Section (Km 0/000 to Km 31/800) of NH 381 in the State of Tamil Nadu.	Rs.26.25 lakhs (Including GST @18%)		

** The quoted rates shall be inclusive of all applicable taxes including GST.
GST will be reimbursed upon submission of proof of payment of GST.

Name, Signature & Seal

Annexure-A

1. ETC Equipment

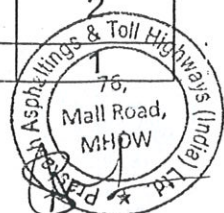
The following table captures the list of equipment required at plaza and lanes. The minimum standard expected of these equipment is captured in subsequent sections of this document, while the number of equipment expected to be provided as part of project is as follows¹:

Implementation of HETC system (FASTag), Video Sureveillance System (PTZ Camera), MSWIM etc., in Velampatti Toll Plaza at Km.28/815 in Avinashi to Avinashipalayam section of NH-381

Number of Toll Plaza	1 No	
Number of Lanes	8 Lanes per plaza	
1 - System supply, Installation, Integration, Commissioning, Operation & Maintenance		
	Unit	Qty
A-Lane Level Equipment		
ETC RFID transceiver near pay axis mounted on canopy (1 per lane)	No	8
Electronic Enclosure (1 per lane)	No	8
Lane controller with industrial PC (only Controller) (1 per lane)	No	8
Customized industrial grade keyboard (1 per lane)	No	8
Violation light and Alarm and foot switch in booth (1 per lane)	No	8
Booth CCTV camera with voice recording (1 per lane)	No	8
Cabling/Networking/Installation/Commissioning of all equipment and systems (Lump sum)	LS	LS
Software-Lane level (1 per lane)	No	8
Intercom slave unit in booth (1 per lane)	No	8
RFID HHT reader - Wifi enabled (2 per plaza)	No	2
Lane UPS with 1KVA (1 per lane)	No	8
MSWIM	No	8
B-Plaza Level Equipment		
Plaza Servers in hot stand by configuration (1 per plaza)	No	1
Work station for MIS,Cash up, Audit & LSDU (Lane status display unit in control room)	No	2
8 port networks switch (Layer 3) (2 per plaza)	No	2
24 port network switch (Layer 3) (2 per plaza)	No	2
Router	No	2



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18	Software-Plaza level (1 per plaza)	Job	1
19	55" LED Display for CCTV monitoring (1 per plaza)	No	1
20	Network video recorder (NVR) for CCTV recording (1 per plaza)	No	1
21	CCTV camera for plaza building surveillance (4 per plaza)	No	4
22	Intercom master unit in control room -20 channel (1 per plaza)	No	1
C - PTZ camera			
23	Video Sureveillance System (PTZ camera) (2 per plaza)	No	2
D - Miscellaneous			
24	Broadband Internet connection with Minimum 10 Mpbs Link (1 per plaza)	No	1
25	Diesel Power Generator with 82.5 KVA 3Phase (415 V: 66KW) 102 HP @ 1500 RPM with all standard accessories.	No	1
Part-II Operation and Maintenance (2 Years)			
26	O&M Charges for 2 years	1 year	2

¹ Please refer specification details of the equipment as captured in this Annexure.



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