

**OFFICE OF THE
CHIEF ELECTORAL OFFICER: MANIPUR**

www.ceomanipur.nic.in
Telefax : 0385-2414239/2414859



ceo_manipur@eci.gov.in
jtceo_manipur@eci.gov.in

INVITATION FOR BIDS (IFB)

Imphal, the 28th June, 2022

No. 5/ELEC/EPIC Security/2021: Chief Electoral Officer, Manipur invites bids for supply of Pre-printed colour PVC Electors' Photo Identity Cards (EPIC) with printing and hot stamping of Hologram and printing of voter manual kit including Envelope, Welcome letter, and Voter Guide with new security features along with Printers for Chief Electoral Officer's Office, Manipur and 11 District Election Officer's Office.

2. Tender is to be submitted on-line through e-procurement/tender portal <https://manipur tenders.gov.in>

The dates for submission of bids are as follows:

SL.No.	Information	Details
1	Publishing of tender documents	28 th June, 2022 at 1:00 PM
2	Seeking clarification	05 th July, 2022 till 3:00 PM
3	Pre-Bid meeting	14 th July, 2022 at 1:00 PM
4	Last date of submission of EMD	21 st July, 2022 till 1:00 PM
5	Last date of submission of online Technical & Financial bids	21 st July, 2022 till 1:00 PM
6	Opening of Technical Bids	21 st July, 2022 at 3:00 PM
7	Opening of Financial Bids	25 th July, 2022 at 11:00 AM

3. TERMS & CONDITIONS:

- a) All the Tenders/Bids shall be submitted only through online mode and no manual submission of the same shall be entertained. Bidder (authorised signatory) shall submit their offer of Technical and Financial Bid (Single Stage Two Envelops Bid - Two Parts) through e-Proc website/portal. However, DD for Bid Document Fees, Bid Security and Processing Fee should be submitted physically at the office of Procurement Entity as prescribed in NIT on or before date/time.
- b) The Authority reserves the right to accept or reject any or all tenders without assigning any reason thereof. The office may also modify the terms and conditions before giving supply order.
- c) No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful short-listed bidders.
- d) An Earnest Money Deposit (EMD) of **Rs. 90,000.00 (Rupees Ninety Thousand only)** is to be submitted in the form of bank draft of any Nationalised Bank payable at Imphal drawn in favour of Chief Electoral Officer, Manipur shall be deposited.
- e) In case any bidder fails to physically submit the Banker's Cheque/ Demand Draft for Tender Fee, Bid Security and Processing Fee on or before the prescribed last date/time, its bid shall not be accepted.
- f) The bidders must possess Digital Signature Certificate of Class II or Class III for submission of bids through online in the above website.


28/06/2022

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- g) The Department shall not be responsible for any delay in postal service or disruption of web service. For this, bidders are requested to upload the complete bid well in advance to avoid 11th-hour issues like slow internet speed, choking of the website due to heavy load or any other unforeseen problems.
- h) Bidders are also advised to refer "Bidders Manual Kit" available at e-Proc website for further details about the e-Tendering process.
- i) The Authority reserves the right to cancel all bids without assigning any reason thereof.
- j) The Tenders/Bids shall be opened at the office chamber of Additional/Joint Chief Electoral Officer, Manipur, Lamphelpat.
- k) Bidding documents may be downloaded from the website <https://manipur tenders.gov.in> and ceomanipur.nic.in w.e.f. 28th June, 2022, 1:00 PM.
- l) The bidder should be a company registered firm or registered company under Companies Act.
- m) The bidders shall have GSTIN Registration The firm should produce valid PAN No.
- n) The bidder should never have been blacklisted/barred/disqualified by regulator/statutory body or any PSU
- o) Tenders/Bids must be quoted in English language only.
- p) The rate quoted must be both in figure and words and it must be firm for a period of 6(six) months subjected to physical verification.
- q) Tender documents should be submitted along with the photograph of prescribed specification of printers.
- r) The EMD shall be exempted for bidders who are certified under SME/NSIC, upon furnishing relevant documents.
- s) Security Deposit of 3% (refundable) of the total quoted amount in the form of Bank draft of any Nationalized Bank/Scheduled Commercial Bank payable at Imphal drawn in favour of Chief Electoral Officer, Manipur should be submitted by the successful bidder. The Security Deposit shall be submitted to Election Department within 7 (seven) days from the date of issue of Letter of Acceptance by the Department.
- t) Tender fees of **Rs. 5,000/-** (Rupees five thousand) should be submitted in the form of Bank draft of any Nationalised Bank/ Scheduled Commercial Bank payable at Imphal drawn in favour of Joint Chief Electoral Officer, Manipur.
- u) Uploaded documents of valid successful bidder will be verified with the original documents before signing the Agreement.
- v) The office will not pay any advance to the firms.
- w) This office may cancel the order if the required items are not supplied in time or do not meet the specification envisaged by this office.


28/06/2022

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- x) All Bank drafts should be submitted in a separate Envelope by indicating tender identification e.g. ("Earnest Money Deposit/Tender fee" etc.).
- y) The bidders should not be blacklisted by any Government/ Semi Government/ Private Institute.
- z) All disputes are subject to jurisdiction of courts at Imphal only.

(**Ramananda Nongmeikapam**)
Joint Chief Electoral Officer, Manipur

Copy to:

1. Principal Secretary (Election), Govt. of Manipur.
2. Smt. L. Sujata Devi, Database Administrator for uploading on CEOs website
- <https://ceomanipur.nic.in>
3. Notice Board
4. Relevant File



TENDER DOCUMENT FOR PRINTING AND SUPPLY OF PRE-PRINTED/PERSONALISED COLOUR PVC ELECTORS' PHOTO IDENTITY CARDS (EPIC) WITH NEW SECURITY FEATURES AND HOT STAMPING OF HOLOGRAM AND PRINTING OF VOTER MANUAL KIT INCLUDING ENVELOP, WELCOME LETTER AND VOTER GUIDE FOR MANIPUR.

**OFFICE OF THE CHIEF ELECTORAL OFFICER MANIPUR
LAMPHELPAT, IMPHAL WEST -795004
www.ceomanipur.nic.in**

TENDER SCHEDULE

Office of Chief Electoral Officer, Manipur invites tenders under Two Bid System (Technical Bid & Commercial Bid) for selection of agency for supply of Pre-printed colour PVC Electors' Photo Identity Cards (EPIC) with printing and hot stamping of Hologram and printing of voter manual kit including envelop, CEOs cover letter and Voter Guide with new security features along with Printers for all EROs of Manipur

Sl. NO	Information	Details
1.	Bid- Inviting Authority	Chief Electoral Officer, Manipur Election Department, Lamphelpat, Manipur -795004 e-mail: ceo_manipur@eci.gov.in
2.	Name of the work	Manufacture and supply of Pre-printed and Personalised Colour PVC Electors Photo Identity Cards (EPIC) with prescribed security features and hot stamping of Hologram and printing of voter manual kit including envelop, welcome letter and Voter Guide as per ECI's specification.
3.	Tender Reference	5/ELEC/EPIC Security/2021
4.	Date of Tender Publication	28 th June, 2022 at 1:00 PM
5.	Date & Time of Pre-Bid meeting	14 th July, 2022 at 1:00 PM
6.	Last date & time for submission of online Technical & Financial bids	21 st July, 2022 till 1:00 PM
7.	Estimated work value	45,00,000/-
8.	Earnest Money Deposit (EMD)	Rs. 90,000/- should be paid by way of Demand Draft or Banker's Cheque drawn in favour of " Chief Electoral Officer, Manipur " and payable at Imphal only.
9.	Last Date of submission of EMD	21 st July, 2022 till 1:00 PM
10.	Date of Opening of Technical Bid	21 st July, 2022 at 3:00 PM
11.	Date of Opening of Financial Bid	25 th July, 2022 at 11:00 AM
12.	Tender Fee	Rs.5000/- (non-refundable)
13.	Performance Guarantee (BG)	3% of the total value of tender
14.	Alternate Bids	Not permitted
15.	Bid Validity	180 days.

16.	Tender Period	3 (three years) Extendable up to 5 years.
17.	e-Tender Portal	https://manipurenders.gov.in (tender submission) http://manipur.gov.in (Download tender documents) https://ceomanipur.nic.in (Download tender documents)
18.	Address for Communication	Office of the Chief Electoral Officer, Manipur, Lamphelpat – 795 004, Manipur Landline: 0385 2412841 Fax No.: E-mail: ceo_manipur@eci.gov.in

Important Instructions:

- a. An Agency will be selected under procedures described in this RFP. Agencies will be required to register on the website, which is free of cost. The Agencies would be responsible for ensuring that any addendum/ corrigendum available on the website is also downloaded and incorporated.
- b. For submission of the bid, the bidder is required to have Digital Signature Certificate (DSC). Possession of Digital Signature Certificate (DSC) and registration of the bidder on the portal i.e. <https://manipurender.gov.in> is a prerequisite for e-tendering.
- c. Any proposal or modification to proposal received outside e-procurement system will not be considered. The electronic bidding system would not allow any late submission of Proposal.
- d. Bidders are also advised to refer "Bidders Manual Kit" available at e-Tender Portal for further details about the e-Tendering process.
- e. All tenders will be opened on the appointed date and time. Bidders who wish to be part of the bid opening process may kindly be present.
- f. Financial bid opening will be done in the presence of technically qualified bidders or their representatives, on the appointed date and time.
- g. The proposal may be submitted through e-Tender Portal i.e. <https://manipurenders.gov.in>. Tender documents may be seen/downloaded from <https://manipurenders.gov.in> & <http://manipur.gov.in> and <https://ceomanipur.nic.in>.

Definitions used in the Tender Document:

1	Agreement	Means the document signed by the Authority (Election Department) and the Bidder that incorporate any final corrections or modifications to the tender and is the legal document binding on both the parties to all terms and conditions of the Contract.
2	BG	Bank Guarantee
3	Bid	Means the complete bidding document submitted by the Bidder to the Authority and shall include any corrections, addenda and modifications made therein In accordance with the terms and conditions of tender.
4	Bidder	Means the party who makes a formal offer in pursuance of the tender floated.
5	CEO	Chief Electoral Officer
6	Invitation of Bid	Means the advertisement published in accordance with the legal requirements or notifications by other means to prospective Bidders of the forthcoming opportunity to Bid for the Contract.
7	Letter of Acceptance	Means the formal acceptance of the bid of the Successful Bidder by Election Department.
8	Lowest Tender	Means the tender which, on evaluation, is found to be the most beneficial to the procuring entity in financially quantifiable terms.
9	Payment	Means the amount payable by Election Department, Manipur based on the tendered items as per the agreement.
10	Period	Means entire term of the Contract.
11	Purchaser	Purchaser means the end-user for whom the procurement / Services is indented through the tender.
12	RFP	Request for Proposal
13	Successful Bidder	Successful Bidder means the Bidder who becomes successful through the tender process.
14	Service Tax	As per the announcement of Government of India, service tax will be paid at actuals as applicable.
15	Department	Election Department, Government of Manipur.

1. Scope of Work

- (a) Background: In an effort to prevent electoral fraud, EPIC (Electoral Photo Identity Card) was introduced by Election Commission of India (ECI) in the year 1993. Guidelines have been issued by ECI from time to time to incorporate various security features in EPIC.
- (b) The ECI has directed that “Colour PVC Card manufacturer and security printer”- with in-house printing on PVC sheet with security features and capacity of personalisation, and proper security management to be selected.
- (c) Manufacture and Pre-printed/ Personalised Colour PVC Electors Photo Identity Cards (EPIC) to be supplied with prescribed security features and hot stamping of Hologram along with Welcome letter, Voter Guide and Envelope as per the following schedule:
 - (i) Summary Revision Period: To be printed by the firm in bulk.
 - (ii) Continuous Up-dation period: Heavy Duty Printers to be supplied by the successful bidder (specification as per Para No. 3. Specification of printer).
 - To be printed at
 - (a) Chief Electoral Officer’s Office - 1 (one) printer
 - (b) District Election Officer’s Office – 11 (eleven) printers
- (d) The Bidders shall keep themselves informed on the instructions, terms & conditions, specifications and ECI guidelines on Personalized PVC EPICs issued from time to time.
- (e) It will be imperative for each Bidder(s) to familiarise itself/ themselves with the prevailing legal situations for the execution of contract. This Department shall not entertain any request for clarification from the Bidder regarding such legal aspects of submission of the Bids.
- (f) It will be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bids and no claim whatsoever including those of financial adjustments to the contract awarded under this tender will be entertained. Neither any time extension nor financial adjustments arising thereof shall be permitted on account of failure by the Bidder to appraise themselves.
- (g) The Bidder shall be deemed to have satisfied itself fully before Bidding as to the correctness and sufficiency of its Bids for the contract and price quoted in the Bid to cover all obligations under this Tender.
- (h) It must be clearly understood that the Terms & Conditions and specifications are intended to be strictly enforced along with ECI guidelines in the subject matter. No escalation of cost in the Tender by the Bidder will be permitted throughout the period of contract or throughout the period of completion of contract whichever is later, on account of any reasons whatsoever but benefit of price fall due to any reason shall be passed on.
- (i) The Bidder should be fully and completely responsible for all the deliveries and deliverables within the stipulated timelines.
- (j) The Department reserves right to cancel part or complete bids without giving any reason.

State of Manipur structure is given as below:

- i. District Election Officer (DEO) = 11
- ii. Total Colour EPICs printed in the State/UT in the last three years
2019-2020 – Form 6+8 = 435271,
2020-2021 – Form 6+8 = 478492,
2021-2022 - Form 6+8 = 209950 respectively.

(k) The Personalized PVC EPICs shall be supplied with prescribed security features and personalization details printed upon them, and hot stamping of Hologram.


(m) The selected vendor shall procure the Hologram from a reputed Hologram manufacturer as per specification given by the Election Commission of India vide letter dated 18.01.2022 (Annexure-XI). The Hologram manufacturer should be member of the Authentication Solutions Providers Association (ASPA), International Hologram Manufacturers Association at (IHMA) ISO 9001 Certification and must be certified under Security Certification – TUV-ASPA (Formerly known as HOMAI) Hologram Security Standards. The cost of Procurement of Hologram & hot stamping shall be included in the price Bid. No additional charge for Hologram will be paid.

2. Specifications of PVC Card:

Sl No	Specification	Details
a)	Card type	All new cards will be printed on a PVC sheet with coloured photograph. Material Poly Vinyl Chloride, Glossy/Mat finishing (PVC)+Polyethene Terephthalate Glycol (PETG) Proposed Layering is mentioned in the RFP document.
b)	Card size	CR 80 (86mm x 54mm x 0.76mm) variation permissible of plus and minus 5%
c)	Thickness	760 microns (=/-10%)
d)	Lamination	(Overlay) Glossy/Mat finishing
e)	Design & Layout	Indicative design provided with bid document. Election department may alter the design, colour scheme and layout any time.
f)	ISO Standard	CR-80 type adhering to ISO/IEC 7810 /10373 standards
g)	Special Feature	QR Bar code with 3000+ text characters. However, Election department, may alter the size, specifications, and layout of the OR code any time before or during the currency of the contract
h)	Indicative list of card features	i) Guilloche pattern on the base of the card. Design shall be provided by Election department (Three colour guilloche design) ii) The National Emblem printed on the upper left-hand corner and Election Commission of India logo printed on the upper right-hand corner in colour.
i)	Other Features/Pre-printed/ Personalization	
j)	Back	Relief tint of “Election Commission of India” in bilingual, i.e., English & Manipuri.

k)	Front side Specification/ dimension	<ul style="list-style-type: none"> i) National Emblem : To be printed on the upper left-hand corner (5.00 mm from left edge & 4.00 mm from top edge) ii) “ELECTION COMMISSION OF INDIA” in English & in Manipuri on the top. iii) “ELECTOR PHOTO IDENTITY CARD” in English & in Manipuri below “ELECTION COMMISSION OF INDIA”. iv) EPIC number: To be printed below the National emblem (5.00 mm from left edge and 2.00 above the photograph). Front of the EPIC number printed on both sides of card should be “Arial Rounded Bold MT” for better readability by the OCRs. v) Photograph of elector: To be printed at the left corner below the EPIC number width – 21.00 mm, Height – 28.00mm (3.00 mm from the left edge and 5.00 mm above the bottom edge). vi) ECI logo: To be printed on the upper right-hand corner (4.00 mm from top edge and 5.00 mm from right edge) vii) Ghost Image: Width – 7.00 mm, Height – 9.00 mm (5.00 mm from right edge and 31.00 mm from bottom edge). viii) Ghost EPIC number: To be printed at right side of Ghost image in vertical (bottom-up) direction (2.00 mm from the right edge). ix) Hologram: At the right bottom corner (3.00 mm from the edges). x) Elector’s Name, Relative’s Name, Gender and Date of Birth: To be printed in (English and Manipuri) on the right-side of the photograph of the elector. Either age or DOB shall be printed on the card. Age will be printed in case DOB is not available in the E-Roll data.
l)	Back side Specification/ Dimension	<ul style="list-style-type: none"> i) Facsimile signature of Electoral Registration Officer: To be printed on top left corner. ii) “Electoral Registration Officer”, in English and in Manipuri and its AC No. and AC Name in English and Manipuri. iii) QR Code: To be printed below the “facsimile signature of ERO” on the left side of the card (4.00 mm from the left edge and 14.00 mm below the top edge) <ul style="list-style-type: none"> a. Width – 25.00 mm, Height – 25.00 mm b. QR Code will consist of EPIC No, Name of Elector, Relative Name, Date of Birth/Age. c. Provision to read QR code printed on the card will be made available on Voter Helpline App (VHA). iv) EPIC Number: To be printed below the QR code (7.00 mm from the left edge and 10.00 mm above the bottom edge) v) Elector’s Address, Electoral Registration Officer and AC/PC No. & Name and ‘Note’ are to be printed in bilingual (in English and regional language) to the right side of QR code. vi) The following would be printed at the bottom of the EPIC in English and Manipuri as Foot Note: <ul style="list-style-type: none"> 1. Before every election, please check that your name exists in current electoral roll. 2. This card is not a proof of Age except for the purpose of election. vii) Voter Helpline No. (1950), CEO’s website and Old EPIC No. (if available) issued to the elector, if any, are to be

		<p>printed below the horizontal red line, at the bottom of the card.</p> <p>NOTE:- The above specifications may be changed as per the guidelines of ECI. The vendor has to supply the PVC cards as per the guidelines of ECI in force from time to time.</p>
m)	Sample Card	<p style="text-align: center;">Front and Back of new EPIC</p>  <p>The image shows the front and back of a new EPIC card. The front side (top) features the Election Commission of India logo, the card number ZBIOKLM987, a photo of Anita Kumari Chauhan, and her personal details: Name: अनिता कुमारी चौहान, पिता का नाम: सतीश कुमार चौहान, लिंग / Gender: स्त्री / Female, and जन्म तिथि / आयु: 35 वर्ष (Date of Birth / Age: 12/04/1984). The back side (bottom) features a QR code, the card number ZBIOKLM987, the address: पता: एच.नं. ए-32, सुंदर विहार, राम नगर, जोधाला, जयपुर, राजस्थान - 302019, and the issue date: 38/10/2021. It also includes instructions in Hindi and English to check the name and age before the election.</p>
n)	Specification and Security Features of Hologram:	
	(i) Holographic Features	<p>Indicative list of high security anti-counterfeiting holographic features are :</p> <p>Overt: Motion Effects Multi-channel Effects True Color Effects Gradient Effects</p> <p>Covert: Micro Security Features CLR based Effects</p> <p>Forensic: Nano Security Features</p> <p>Note: Selected bidder will be required to provide 5 sample designs in consultation with CEO Manipur based on aforesaid (or other better) features for finalization by CEO Manipur.</p>
	(ii) Film Type	Vacuum metalized, 19-to-23-micron polyester film of Silver and Gold shade to be used.

	(iv) Adhesive	Thermo Plastic polymer-based adhesive to be used.																				
	(v) Hologram Size	Hologram size (before stamping): 20mm x 15mm Job size or die size (after stamping): 16mm x 12mm																				
	(vi) Hologram Type	The security hologram must be suitable for hot stamping on EPIC card. It should be as per the design, approved and finalized by ECI.																				
	(vii) Hologram color	Gold/Silver Foil to be used.																				
	(ix) Numbering	Each hologram must be serially numbered to ensure proper accountability of the holographic hot stamping foil (numbering must not vanish by rubbing fingers upon it). Numbering may be on the holographic hot stamping foil over the holographic design or on the foil. However, upon hot stamping it must not get transferred on to the card.																				
	(x) Sample of Hologram	The diagrammatic representation of the ECI hologram for dimensions pre hot stamping and post hot stamping are as under:-																				
		<p><u>Sample of Hologram</u></p> 																				
	(xi)	Each order delivery should be accompanied by a “quality test report from a Govt Lab” based on the following tests:																				
		<p>A. Chemical</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Agent</th> <th>Total Time</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Petrol</td> <td>5 minutes</td> <td>Pure</td> </tr> <tr> <td>2</td> <td>Diesel</td> <td>5 minutes</td> <td>Pure</td> </tr> <tr> <td>3</td> <td>Hot water(65°C)</td> <td>30 Minutes</td> <td>Pure</td> </tr> <tr> <td>4</td> <td>Normal Soap Water</td> <td>1 hour</td> <td>5%</td> </tr> </tbody> </table>	S.No	Agent	Total Time	Concentration	1	Petrol	5 minutes	Pure	2	Diesel	5 minutes	Pure	3	Hot water(65°C)	30 Minutes	Pure	4	Normal Soap Water	1 hour	5%
S.No	Agent	Total Time	Concentration																			
1	Petrol	5 minutes	Pure																			
2	Diesel	5 minutes	Pure																			
3	Hot water(65°C)	30 Minutes	Pure																			
4	Normal Soap Water	1 hour	5%																			

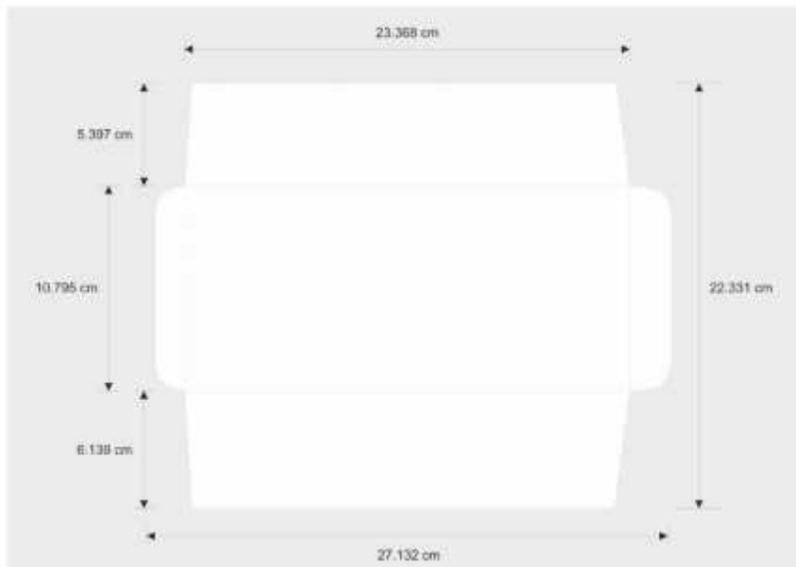
		B) Physical Checks:					
		S.No.	Agent	Test Procedure			
		1	Image Quality	Check visually for the Brightness, visible defects/spots.			
		2	Flakes	The stamped image should be free from flakes along the sides of the hot stamping area.			
		3	Smudge Test	Briskly rub the image with your finger about 10 to 12 times & check visually for any deterioration to the image.			
		4	Tape Test	Apply 3M 810 Scotch tape (Magic Tape), on the sample & pull it abruptly in a single jerk at 25° angle to check visually for any residue on the Tape. The sample should withstand Tape Test without peel-off.			
		5	Effect of Humidity	Exposing the card to 27°C at 65% RH for 18 hrs in a Humidity Chamber.			
		6	Effect after exposing the card to 50°C & 80% RH for 18 hours	Expose the card to 50°C & 80% RH for 18 hours in a humidity chamber & check visually for any deterioration to the image after rubbing the surface with tissue paper.			
o)		Specifications of Voter kit to be printed and auto enveloped					
		Item	Size (in cm)	No of leaf	Paper	Type of printing	Remarks
		Welcome letter	21x29.7	01	75 GSM Maplit ho	Colour both side	Printing will be done as per design/ layout approved by CEO, Manipur.
		Voter Guide	9.5x16.5	06	paper (+/-5%) from "A"	Colour both side	
		Window Envelope	10.5x23.5	01	grade mill	Colour Single side	

3. Specification of Printer:

Printing	
✓ Print Type/ Area	Dye-Sublimation/Edge to Edge
✓ Resolution	300dpi (Color & Mono), 600 & 1200dpi (Mono only)
✓ Dual Sided Printing	Dual Sided Printing
CARD	
✓ Card Feeding	Automatic
✓ Card Size	ISO CR80 or ISO CR79 (Option-Factory installed)
✓ Card Thickness	0.38mm (15mil), 1.0mm(40mil)
✓ Card Type	PVC, PET, Composite PVC
PRINT SPEED	
✓ Monochrome	5 sec/card (720 cards/hours)
✓ YMCKO	Front-in & Front-out: Max 17 sec/card (212 cards/hour) Front-in & Back-out: Max 16 sec/card (225 cards/hour)
✓ YMCKOK	Max, 22 sec/card(164 cards/hour)
LAMINATING SPEED	
✓ Simultaneous (Single Lamination)	22 sec/card (YMCK)/32 sec/card (YMNCKK)
✓ One by One (Single Lamination)	43 sec/card (YMCK)/53 sec/card (YMNCKK)
CAPACITY	
✓ Inner Hopper	100 cards/200 cards with cover open
✓ Output Hopper	Front: 40cards/back: 100 cards (Optional Back-side stacker)
SYSTEM	
✓ Display & Button	2 Line LCD/2 LED Buttons
✓ Supported Platforms	Microsoft Windows 7/8/10, Mac OS, Linux
✓ Communication	USB, Ethernet (Option)
✓ Power	Free Voltage (AC100/240V, 50~60Hz)/96W
✓ Temperature/Humidity	15~35°C/35~70%
✓ Security	Physical lock & Kensington Lock (Option)
DIMENSIONS/WEIGHT	
✓ WxKxH (Millimeter/Inch)	165 x675 x 210 /6.5 x 26.6 x 8.3
✓ KG/lbs	8.8 / 19.4
ENCODING OPTION	
✓ Magnetic	ISO7811 (Track I, II, III Read/Write, HiCo/LoCo), JIS II
✓ Contact	ISO 7816 (ID-1)
✓ Contactless	MIFARE, ISO 14443 (Type A/B), ISO 15693, DESFIR, iCLASS

4. Specification of Voter Kit:

A. Envelope:



C. Voter Guide

Register Online or Verify your details at <https://voterportal.eci.gov.in>

1950
Voter Helpline

Install
Voter Helpline App

1950
Voter Helpline

Install
PwD App

1950
Voter Helpline

VOTER GUIDE

Election Commission of India

1950-1950 | NO VOTER TO BE LEFT BEHIND

Election Commission of India

Minister's Bldg., Indira Park, New Delhi - 110001

<https://eci.gov.in>

VOTE THLAK TURTE HRIAT TUR PAWIMAWH

Voter list ok / Voting ready

- Visit Website: voterportal.eci.gov.in
- SMS to 1950: ECP's appcode +EPC Name
- Use Voter Helpline App

Polling station correct list ready

- VSN: voterportal.eci.gov.in
- SMS to 1950: ECP's appcode +EPC Name
- Use Voter Helpline App

Candidate to check list ok / Voting ready

- Use Voter Helpline App

Ballot changing list ok / Voting ready

- Helpline 1950 phone ring the

Use Voter Helpline App with QR code, arrange Polling Booth in voter Booth

Use Voter Helpline App

Use Voter Helpline App

FACILITIES FOR PwDs & SENIOR CITIZENS

Ramp & Wheel Chair

Transport Facility for PwDs

PwD with Braille

Voter Assistance Bank

Sign Language

Special Marketers

Signage

Priority Access to PwDs and Senior Citizens

OTHER FACILITIES AT POLLING STATION

Separate Queue

Drinking Water

First Aid

Waiting Shed

Toilet

We look forward to your comments/suggestions/queries.

Name: _____

Address: _____

Phone: _____

Email: _____

Comments/Suggestions/Queries: _____

INTHLAN NI CHUAN

Voter ni hi hriat ok / Voting ready

Polling officer ni hriat ok / Voting ready

Ballot ni hriat ok / Voting ready

Voter ni hriat ok / Voting ready

Polling officer ni hriat ok / Voting ready

I VOTE HLU TAK KHA THLAK ANG CHE

1. Voter to check list ok / Voting ready
2. Voter to Give poll ok / Voting ready
3. Polling Officer to check list ok / Voting ready
4. Polling Officer to check list ok / Voting ready

#MyVoteMatters

PROUD TO BE A VOTER

To,
District Election Officer/
Deputy Commissioner

EVM - VVPAT HMANGA VOTE THLAK DAN

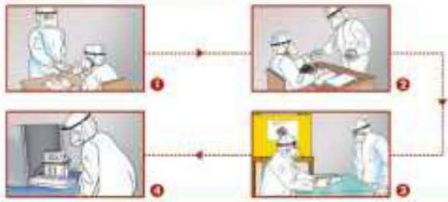
1. Polling Officer to check list ok / Voting ready
2. Voter to check list ok / Voting ready
3. Polling Officer to check list ok / Voting ready
4. Voter to check list ok / Voting ready

#MyVoteMatters

PROUD TO BE A VOTER

To,
District Election Officer/
Deputy Commissioner

A TAWP DARKAR-A VOTE THLAK

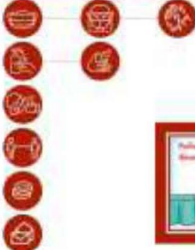


PP to change Polling Station through voter helpline 182 or www.eci.in

COVID-19 symptoms such as fever, cough, loss of breathing, dizziness, loss of taste or smell, etc. Polling Booth changes across PP. Kit pack on its way.

COVID-19 LAIA HIM TAKA VOTE THLAK

- Masks, face shields and Gloves
- Sanitiser, soap and water
- Thermal Screening of all persons
- Social distancing
- Tables system to avoid queues
- Optional Postal Ballot facility



5. Eligibility Criteria:

The Bidders should have the following Eligibility Criteria for participating in the Tender.

Sl.No	Specific Requirements	Documents Required
i.	The bidder should be a reputed Firm/Company who are currently supplying any kind of PVC cards having requisite installed capacity to manufacture PVC EPIC cards with facility for hot stamping of hologram. The bidder must be registered in India under Companies Act 1956/ Companies Act, 2013.	Company Incorporation Certificate.
ii.	Category of Bidder should be "PVC Card Manufacturer and Security Printer" and should have capacity of personalization.	a) Visa Card or Master Card or RuPay or RBI or IBA or Aadhaar Card or PAN Card (Please attach valid certificate) OR b) ISO 27001 and ISO 9001
iii.	-Bidder should have experience and past performance in executing work of supply of any kind of PVC Cards with security features equal to:- a) 3 completed work orders of Rs 1 crore each or more or b) 2 completed work of Rs. 2 crore each or More or c) 1 completed work of Rs. 3 crore each or more during last 3 (three) financial years.	certified copy of statutory audit mentioning address of manufacturing plant
iv.	The Bidder should have a minimum annual turnover of 1 (one) crore from the business of printing PVC cards in the last 3 (three) financial Years.	Audited Balance Sheet of last 3 years CA certificate with registration number and seal.
v.	Financial Net Worth as on 31.03.22 should be positive.	CA certificate with registration number/ seal.
vi.	The bidder should never have been blacklisted/barred/disqualified by regulator/statutory body or any PSU	Self-Declaration that the bidder has not been blacklisted / barred / disqualified by regulator / statutory body or any PSU

vii.	The bidder must have a valid GST Number under Goods & Service Act and valid PAN number under IT Act.	Copy of GST Registration, TIN registration Certificate and PAN.
viii.	The Bidder should a) not be under a declaration of ineligibility for corrupt or fraudulent practices. b) not be blacklisted by any Government Agency. c) have submitted only one bid (a self-certified letter as per Self Declaration) d) not sublet the contract. e) not have any affiliation with any Political Party.	A self-certified letter by the designated official of the responding firm. However, the same shall be inspected by CEO's office before final selection.
ix.	The bidder should have successfully completed PVC card with security feature with Hologram printing projects within India during last 5 years awarded by Government / PSU / banks.	Work order and project completion certificate.

6. Technical Evaluation:

Technical evaluation sheet

Sl.No.	Criteria	Max. Marks	Marks Obtained	Documents submitted
1	Capability and Profile			
1.1	Infrastructure Quality	15		
	1. Space available, free & utilized (Minimum free space required should be commensurate to store 10 days production capacity)	8		
	2. Space connectivity (by road, rail and air)	3		
	3. Physical security etc a) Round the clock security provision. b) CCTV surveillance Cameras at all strategic location (both inside and outside the premise) with 30 days recording facilities. c) Entry only through biometric/Card punching system.	4		
1.2	Quality of Machines (How to meet the required output per day with working sheet)	10		
	(i) Automation	2		
	(ii) Computerization	2		
	(iii) Production in volumes	4		
	(iv) Integration of processes	2		

1.3	Quality/experience of Technical Personnel (preferably more than three years' experience)	15		
	(i) Project Manager	4		
	(ii) IT Team	6		
	(iii) Operation Team	5		
2	Past experience of the Firm	55		
2.1	Average Annual Turnover from the Printing operations (including PVC cards) within India only, during the previous three financial years (2018-2019, 2019-2020 and 2020-2021):	15		
	(i) 3 crores / more than 3 crores and less than 4 Crore	10		
	(ii) More than 4 Crore	15		
2.2	Value of completed PVC card printing projects within India during last Three years awarded by Government/ PSUs/Banks as on 31.03.2021:	15		
	(i) More than 3 crores, less than 4 crores	10		
	(ii) More than 4 crores	15		
2.3	Experience in years	15		
	5 or more than 5 years, but less than 10 years	10		
	More than 10 years	15		
2.4	Installed capacity of printing Colour PVC EPICs	20		
	Up to 20,000 per day	15		
	More than 20,000 per day	20		
3	Presentation for Proposed Methodology	5		
3.1	Printing, Hot Stamping, Assembling and Dispatch Solution, Quality of proposed MIS	2		
3.2	Brief profile of the firm	1		
3.3	Physical and Data Security	1		
3.4	Innovation and features beyond proposed requirements	1		

7. Instructions to Bidders:

- a) Prices quoted by the Bidder shall be fixed during the Bidder's Performance of the Contract and not subject to variation on any account. A Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected.
- b) Pre-Bid query submission, redressal etc management shall be submitted to Office of the Chief Electoral Officer, Manipur, Lamphelpat – 795 004, Manipur. Landline: 0385 2412841, E-mail: ceo_manipur@eci.gov.in
- c) Prospective bidders may attend Pre-bid meeting. The Department may clarify doubts of only to potential bidders in respect of the project which are given in written in the prescribed format received within the time frame given in the bid document and a

softcopy to the email address given herein. Beyond prescribed time, no PBQ shall be entertained.

- d) Technical bid containing Eligibility Criteria and technical aspects/information/documents should be separately uploaded and Financial bid shall also be uploaded separately along with respective associated documents as mentioned in the bid document.
- e) While submitting the complete Bid Document as mentioned above instruments for tender fee amount and bid security fee amount should be physically sent on or before mentioned date and time failing which the bid may be liable to be nonresponsive and rejected.
- f) Financial bids shall be opened of only bidders qualified technically and fulfilling eligibility criteria.
- g) Bidders may submit their Bids through electronic method i.e. through <https://manipurenders.gov.in> on or before bid submission date/time.
- h) The Department is not responsible about non submission of bid electronically in time due to any technical or non-technical reason(s) whatsoever, therefore, prospective bidders are suggested to avoid last minute submission of bid.
- i) Financial bids of only the technically qualified bidders shall be opened.

8. Other Terms & Conditions

- a) Bidder should submit 5 Sample PVC cards, as a sample along with the Test Report from a Government approved Lab confirming the Specifications of the PVC Card, physically by **21st July, 2022 up to 01:00 PM** at CEO's Office, Manipur Lamphelpat. Envelope and cover letter should also be submitted as per RFP technical specification and ISO standards. If the bidders fail to submit the samples, the bid shall be rejected.
- b) The printed and personalized PVC EPIC Cards shall be clear and legible.
- c) Delegation of Sub contract of the work by the Bidder shall not be allowed.
- d) The successful Bidder will not use the data and documents for any other purpose. Non-disclosure Agreement will be signed as mentioned in the format (Annexure-X).
- e) The vendor will deliver the Personalized Colour PVC EPICs to CEO, Manipur within the supply period mentioned in the Supply/Work Order and a receipt will be taken. No additional payment will be given towards packing, delivery etc. of the cards to the respective districts.

9. Selection Process

A. EVALUATION OF PROPOSALS: The evaluation of the proposal will be done in following parts:

1. Preliminary Scrutiny: Each proposal will be scrutinized by a Tender Opening Committee of Election Department to determine whether the documents have been properly signed, all relevant papers submitted, and the proposal is in order. Proposals not conforming to such requirements will be prima facie rejected.

2. Pre-Qualification: The minimum qualifying criteria mentioned in Table of Para 6 – **“Eligibility Criteria”** will need to be met to be considered for technical evaluation.

3. Technical Evaluation:

a. The bid will be evaluated based on the weightings and parameters detailed in Table at - Para 6 **“Technical Evaluation”** – points shall be awarded based on the Total Technical Score (TS) computed for each bid.

b. In order to qualify as **“Technically Qualified Bidder”** (TQB), the bidders should have scored a minimum of 60 marks. Only TQBs with minimum of 60 marks will be considered for Financial Evaluation.

B. SELECTION OF FIRMS:

1. The Financial Bids of only the “Technically Qualified Bidder” will be opened to prepare first list of L1, L2 etc.

2. The lowest rate L1, received from a qualified bidder will be treated as the **“Discovered Rate”**.

3. In case of a tie: In case of a tie between 2 bidders at L1 level (Discovered Rate) after the opening of the Financial bid, no further bid will be considered for L2. Bidder with Higher Technical Score will be treated as L1.

4. If only one bidder qualifies after the technical evaluation, the Election department will have the right to select the single qualified bidder or cancel the RFP. In case Election department decides to continue with single qualified bidder, the entire volume may be allocated to the single qualified bidder for the contract period.

5. The Election department reserves the right to call for a second bid process to select a total of two firms for execution of the project.

6. Bidder need to provide their financial bid as per the format provided in the RFP. Financial evaluation shall be conducted on the basis of the unit rate quoted by the respective bidders.

10. Penalty Clause

I. Risk and Cost:

In case, the contractor doesn't commence the work as required by the Authority within the stipulated period, the work can be allotted to other short-listed bidder at the risk and cost (in case of difference in the cost of supply) of the contractor firm and LD clause shall be attracted to the shortlisted bidder who was placed the order & could not commence the work.

II. Liquidated Damages (LD):

In case of extension in the delivery period with liquidated damages the recovery shall be made on the basis of following percentages of value of Stores with the bidder has failed to supply/ install/ complete: -

delay up to one fourth period of the prescribed delivery period:	2.5%
delay exceeding one fourth but not exceeding half of the prescribed period:	5.0%
delay exceeding half but not exceeding three fourth of the prescribed period:	7.5%
delay exceeding three fourth of the prescribed period:	10%

11. Force Majeure:

- a) The supplier/ selected bidder shall not be liable for forfeiture of its Performance Security deposited, LD, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- b) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the supplier/ selected bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the supplier/ selected bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c) If a Force Majeure situation arises, the supplier/ selected bidder shall promptly notify the purchaser in writing of such conditions and cause thereof within 15 days of occurrence of such event. Unless otherwise directed by purchaser, the supplier/ selected bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- d) If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party at its option may terminate the contract without any financial repercussion on either side.
- e) In case a Force Majeure situation occurs with the purchaser, the purchaser may take the case with the supplier/ selected bidder on similar lines.

12. Dispute Resolution:

In the event of any dispute or differences between the parties hereto, such dispute or difference shall be resolved amicably by mutual consultation or through the good offices or before a board of Arbitrators comprising one nominee from the successful bidder and the office of the Chief electoral Officer, Manipur and a Presiding Arbitrator, to be nominated in consultation with the State Government in the Finance Department, before entering upon the references. The venue of such Arbitration shall be the Office of the Chief Electoral Officer, Manipur. Any further dispute arising out of this Agreement/ Contract will be tried in the Courts of Imphal only.

13. Annexures:**ANNEXURE- I****PERFORMA FOR BIDDER'S PARTICULARS (to upload with technical Bid)**

1	Name of Work/Tender	
2	Name of the Firm/Company/Agency	
3	Permanent office Address of the Firm/Company/Agency	
4	Telephone Number of Firm	
5	Office (Lane Line)	
6	Mobile number	
7	Fax Number	
8	Email ID	

(Signature of the bidder)
Name of bidder (with seal)

ANNEXURE- II**PERFORMA FOR TECHNICAL BID DOCUMENT REQUIREMENTS FOR ELIGIBILITY CRITERIA**

Sl. No.	Documents Required	Documents uploaded/ submitted (Yes of NO)
i.	Company Incorporation Certificate of the bidder registered in India under Companies Act 1956/ Companies Act, 2013.	
ii.	Certificate for "PVC Card Manufacturer and Security Printer" and should have capacity of personalization and supply of a) Visa Card or Master Card or RuPay or RBI or IBA or Aadhaar Card or PAN Card (Please attach valid certificate) OR b) ISO 27001 and ISO 9001	
iii.	Certified copy of statutory audit mentioning address of manufacturing plant for having experience and past performance in executing work of supply of any kind of PVC Cards with security features equal to:- a) 3 completed work orders of Rs 1 crore each or more or b) 2 completed work of Rs. 2 crore each or More or c) 1 completed work of Rs. 3 crore each or more during last 3 (three) financial years.	

iv.	Audited Balance Sheet of last 3 years CA certificate with registration number and seal for a minimum annual turnover of 3 crores from the business of printing PVC cards in the last 3 (three) financial Years.	
v.	CA certificate with registration number/ seal for Financial Net Worth as on 31.03.21.	
vi.	Self-Declaration that the bidder has not been blacklisted / barred / disqualified by regulator / statutory body or any PSU	
vii.	Copy of GST Registration, TIN registration Certificate and PAN.	
viii.	Certificates for installed capacity to manufacture personalized cards on PVC core /sheet with all security features of not less than 10,000 per day for every 1 crore electors in the Electoral Roll of the cumulative States/ UTs for which the bidder takes orders per day capacity of supply of personalised PVC cards	
ix.	A self-certified letter by the designated official of the responding firm for the following: a) not be under a declaration of ineligibility for corrupt or fraudulent practices. b) not be blacklisted by any Government Agency. c) have submitted only one bid (a self certified letter as per Self Declaration) d) not sublet the contract. e) not have any affiliation with any Political Party.	
x.	Work order and project completion certificate. That the bidder has successfully completed PVC card printing projects within India during last 5 years awarded by Government / PSU / banks.	
xi.	Letter of authorised signatory.	
xii.	Bank Draft/FDR/BG for Rs. 90,000.00 in favour of the Chief Electoral Officer, Manipur as Earnest Money Deposit (EMD).	
xiii.	Copy of ISO 9001 and Security Certification – TUV-ASPA (Formerly known as HOMAI) Hologram Security Standards in respect of hologram vendor from whom Hologram is to be procured.	
xiv.	Copy of valid membership certificate in favour of hologram vendor from (from whom Hologram is to be Procured) the Authentication Solutions Providers Associations (ASPA) and International Holograms Manufacturer Association (IHMA).	
xv.	Undertaking that Hologram for hot stamping will be procured from Hologram manufacturers who has authorization and certification requisites as per ECI letter dated 18.01.2022.	

(Signature of bidder with seal)
Name of bidder

ANNEXURE- III

Average Turnover

Sl.No	Financial Year	Turnover from the business of supply of Visa Card or Master Card or RuPay or PVC Aadhar Card having ISO 27001 and ISO 9001 certificates and having requisite installed capacity to manufacture and printing PVC cards in the last 3 (three) financial Years. (in Rs.)
1	2019-2020	
2	2020-2021	
3	2021-2022	
Average Turnover		

ANNEXURE- IV

Financial Bid

Sl. No.	Item Description	Unit Rate (Rs)	Quantity	Value	Tax (%)	Value with Tax
1	Manufacture and supply of Pre-printed Personalised Colour PVC Electors Photo Identity Cards (EPIC) with prescribed security features and hot stamping of Hologram.		80,000 per year			
2	Supply of Pre-printed Colour PVC Electors Photo Identity Cards (EPIC) with prescribed security features and hot stamping of Hologram along with Printers at CEOs and 11 DEOs offices.		2000 per month			
3	Supply of Welcome letter, Voter Guide and Envelope as per ECI prescribed specifications.		100000 per year			
Total Amount (in figure)						
Total Amount (in words)						

ANNEXURE- V

Manufacture and Security Printer Certificate
(To be given on the letter head of the Manufacturer)

To,

The Chief Electoral Officer, Manipur
Lamphelpat, Manipur,
Pin Code: 795004.

WHEREAS

We, who are "manufacturer and security printer" of PVC cards with security features and personalization process in our in-house factory(ies) situated at

_____ and also hereby declare that above PVC EPIC Cards including personalization to be supplied shall be conforming to Visa, RuPay, or PVC Aadhar Card standards, specification of the bid, and other guidelines.

We also know that if our sample(s) submitted with the bid when tested does/do not conforming to ECI standards/guidelines/norms as mentioned in the bid document (as the case may be), our bid may liable to be rejected.

Name: _____

In the capacity of: _____

Signed: _____

Manufacturer' seal: _____

Tel: _____ Fax: _____ e-mail: _____

BIDDER'S AUTHORIZATION CERTIFICATE
(To be given on the letter head of the Manufacturer)

To,

The Chief Electoral Officer, Manipur
Lamphelpat, Manipur,
Pin Code: 795004.

Reference: NIT Number _____
dated _____

WHEREAS

We, who are manufacturer and security printer" of PVC cards with security features and personalization process in our in-house factory(ies) situated at _____and also hereby declare that above PVC Cards including personalization to be supplied shall be conforming to Master, Visa, RuPay or PVC Aadhaar Card standards, specification of the bid, and other guidelines.

We do hereby authorize (Name) _____ (Contact Numbers) Mobile Number, Fax Number _____ email ID _____ to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us and to subsequently negotiate and sign the Contract for **“Manufacture and supply of Pre-printed and Personalised Colour PVC Electors Photo Identity Cards (EPIC) with prescribed security features and hot stamping of Hologram and printing of voter manual kit including envelop, welcome letter and Voter Guide as per ECI's specification”**.

We hereby extend our full guarantee/warranty in accordance with Clauses given in bid document/conditions of contract, with respect to the Goods offered by the above firm in reply to this Invitation for Bids.

Name of the Bidder:-

Verified Signature:

Authorised Signatory: -

Name:

Seal of the Organization: -
(Includes complete address)

Position:

Date: -----

Place: -----

BIDDER'S SELF-DECLARATION CERTIFICATE
(To be given on the letter head of the Manufacturer)

To

The Chief Electoral Officer, Manipur
Lamphelpat, Manipur,
Pin Code: 795004.

Reference: NIT Number _____
dated _____

In relation to my/our bid submitted for "Supply of Personalized PVC EPIC cards with security features" conforming to specifications in Bid & ECI standards in response to the NIT Ref. No. _____ dated _____ as an Owner/ Partner/ Director/ Authorised Signatory of _____, I/ We hereby declare that:

- a) We are eligible and possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Department.
- b) We have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- c) We are not insolvent in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have its business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
- d) We do not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- e) We do not have a conflict of interest as specified in State procurement Act and Rules and this bidding document which materially affects the fair competition.
- f) We are having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT.
- g) We do not have any previous transgressions with any entity in India or any other country during the last three years.
- h) We do not have any debarment or black-listed by any other procuring entity.
- i) We have complied and shall continue to comply with the Code of Integrity as specified in the (Name of the state) in Public Procurement Act, the (Name of the state rules and act) in Public Procurement and this Bidding Document, till completion of all our obligations under the Contract will not sublet the contract if awarded to us.
- j) We agree to extend the validity of bid submitted on the communication of the PE.
- k) We have not modified, changed etc. any word/line/para/text mentioned in the bid downloaded from website(s) as mentioned in the bid otherwise we know that our bid shall be cancelled and rejected if submitted bid has deviation of word/line/ para/text from the original bid.
- l) We agree to submit appropriate Performance Security within time period specified in the bidding document otherwise we know that Procuring Entity have full rights to reject our

bid and agree to extend bid validity period, if any, and extend contract period unconditionally.

- m) We have submitted only one bid.
- n) We give our in-principle consent to be short-listed subject to mutually agree.
- o) We, during the contract period, will collect only those EPIC data of electors by some mutually agreed mechanism (CEO and us) which are required to personalize the PVC EPICs otherwise immediately for extra data/incomplete data, we will bring this into the knowledge of CEO to rectify.
- p) We, after personalization at our manufacturing site, shall return the personalized EPIC on PVC cards along with data to the CEO and get receipt.
- q) We, understand the IPR of the EPIC data given for personalization by us, lies with your department or ECI and will hereby undertake that the given data shall not be copied in any form, not shown/given to any entity, not retained in any form, not used for the purposed other than the purpose mentioned in the bid etc. The data shall be erased entirely once the matter of the lot of supply is materialized/settled.
- r) If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by Government of Manipur, my/ our security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you.

Name of the Bidder: -

Authorised Signatory: -

Seal of the Bidding Organization: -

Date:-

Place:-

CERTIFICATE OF CONFORMITY/ NO DEVIATION

(To be given on the letter head of the Manufacturer)

To

The Chief Electoral Officer, Manipur
Lamphelpat, Manipur,
Pin Code: 795004.

Reference: NIT Number _____
dated _____

CERTIFICATE

1. This is to certify that, the specifications of “Personalized PVC EPICs with security features” which I/ We have mentioned in the Technical bid, and which I/ We shall supply if I/ We am/ are awarded with the work, are in conformity with the minimum specifications of the commodity mentioned in the bidding document and that there are no deviations of any kind from the required specifications.

2. Also, I/ we have thoroughly read the bidding document state procurement act and rules and amendment(s) issued and by signing this certificate, we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding document without any deviations.

3. I/ We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in “Supply of Personalized PVC EPICs with security features”, to meet the desired Standards set out in the bidding Document/ECI.

4. I/We are “PVC Card Manufacture and Security Printer” and declare that Personalized PVC EPICs supplied shall be conforming to the specifications mentioned in the Bid Document and to the ECI norms/guidelines/circulars.

7. I/We, understand the IPR of the EPIC data given for personalization by us, lies with your department or ECI and will hereby undertake that the given data shall not be copied in any form, not shown/given to any entity, not retained in any form, not used for the purposed other than the purpose mentioned in the bid etc. The data shall be erased entirely once the matter of the lot of supply is materialized/settled.

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:-

Place:-

AGREEMENT OF CONTRACT FORMAT

{to be mutually signed by selected bidder and procuring entity}
(This Agreement shall be executed on the non-judicial stamp-paper)

AGREEMENT

An agreement made this _____ day of _____ between _____

_____ (hereinafter called "the Security printer and Supplier" [here "the means short-listed printer and supplier"]), which expression shall, where the context so admits, be deemed to include his heirs successors, executors and administrators of the one part and the Governor of Manipur/ [name of the Procuring Entity if other than a department of the State Government (hereinafter called "the Procuring Entity") on behalf of the Chief Electoral Officer, Manipur (after execution of this agreement the CEO, Manipur shall be performing all jobs/grievance redressal/activities etc. for this Bid during contract period), which expression shall, where the context so admits, be deemed to include his successors in office and assigns) of the other part.

WHEREAS the Procuring Entity invited Bids for certain Goods and Related Services, viz., _____ and has accepted a Bid by the Supplier for the supply of those Goods and Related Services for the sum of _____ (amount in figures and words) (herein after "the Contract Price").

NOW THIS AGREEMENT WITNESSES AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract referred to.
2. The bid document issued vide even no. dated and work order no. dated shall be deemed to form and be read and construed as part of this Agreement.
- 3.1 Period of contract will be to(the contract will be renewed after one year and can be extended further as mentioned in the Bid)
- 3.2 The period of contract may also be reduced or contract can be terminated on the basis of decision of CEO, (Name of the state).
4. In consideration of the payments to be made by the Procuring Entity to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Procuring Entity to provide the Goods and Related Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
5. The timelines for the prescribed Scope of Work, requirement of services and deployment of technical resources shall be effected from the date of work order i.e. _____ and completed by supplier within the period as specified in the bid document.
6. In case of extension in the delivery and/ or installation period/ completion period with liquidated damages, the recovery shall be made based on following percentages of value of stores/ works which supplier has failed to supply/ install/ complete: -
 - a) Delay up to one fourth period of the prescribed delivery period, successful installation & completion of work: **2.5%**
 - b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period, successful installation & completion of work: **5.0%**
 - c) Delay exceeding half but not exceeding three fourth of the prescribed delivery period, successful installation & completion of work: **7.5%**

- d) Delay exceeding three fourth of the prescribed delivery period, successful installation & completion of work: **10.0%**

Note:

- i. Fraction of a day in reckoning period of delay in supplies/ maintenance services shall be eliminated if it is less than half a day.
 - ii. The maximum amount of agreed liquidated damages shall be 10%.
 - iii. If supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to the authority which had placed the work order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
 - iv. Delivery period may be extended with or without liquidated damages if the delay in the supply of goods in on account of hindrances beyond the control of supplier.
7. The (state procurement act and rules) promulgated, their amendments issued by the State Government shall also be the part of this contract agreement.
 8. We, understand the IPR of the EPIC data given for personalization by us, lies with your department or ECI and will hereby undertake that the given data shall not be copied in any form, not shown/given to any entity, not retained in any form, not used for the purposed other than the purpose mentioned in the bid etc. The data shall be erased entirely once the matter of supply is materialized/settled.
 9. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided as per the procedure mentioned in the RFP document.
 10. The CEO, Manipur concerned hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Central and the State Government on the day, month and year first mentioned herein before.

Signed By:	Signed By:
Designation:	Designation:
Company:	Election Department, Govt. of Manipur
In the presence of:	In the presence of:
Designation:	Designation:
Company:	Election Department, Govt. of Manipur
Designation:	Designation:
Company:	Election Department, Govt. of Manipur

NON-DISCLOSURE AGREEMENT

This Non-Disclosure Agreement (“Agreement”) is executed on day of _____2022 (“Effective Date”), by and between:

Chief Electoral Officer, Manipur, hereinafter referred to as the “Authority” which Expression shall, unless repugnant to the context and meaning include its successors, administrators And assigns) of the ONE PART;

AND

....., a Company duly registered under the Companies Act1956/2013, through its Authorized representative [Name] holding the designation [Designation], having its registered office at [address], (hereinafter referred to as the “Bidder” which expression shall, unless repugnant to the context and meaning, include its successors, administrators, executors, attorneys, agents and assigns) of the OTHER PART.

WHEREAS:

- A. The Bidder is desirous of bidding for bid No.....covering “[RFP FOR SELECTION OF EPIC HOLOGRAM PROVIDER] ”(hereinafter called the said 'RFP') issued by the Authority.
- B. The Bidder is aware and confirms that the Authority’s business/operations, information, Application/software, hardware, business data, architecture schematics, designs, storage media and other information / documents made available by the Authority in the RFP documents during the bidding process and thereafter, or otherwise (confidential information for short) is privileged and strictly confidential and/or proprietary to the Authority.

NOW THEREFORE,

In consideration of disclosure of confidential information, and to ensure the Authority’s grant to the Bidder of specific access to Authority’s confidential information, property, information systems, network, databases and other data, the Bidder agrees to all the following conditions.

It is hereby agreed as under:

- 1. The confidential information to be disclosed by the Authority shall include without limitation, all information in written, representational, electronic, verbal, or other form, whether or not expressly marked as “Confidential”, relating directly or indirectly to inventions, processes, products, ethodologies, algorithms, risk matrices, thresholds, parameters, reports, data, models, deliverables, work products, specifications,

architecture, project information, related computer programs, systems, trend analysis, risk plans, strategies, operating techniques, source codes, object codes, “know how”, drawings, designs, patents, copyright, trademarks, trade secrets, unpublished records and information communicated or obtained through meetings, documents, correspondence or inspection of tangible items, facilities, or inspection at any site to which access is permitted by the Authority.

2. The Bidder agrees to hold in trust any Confidential Information received by the Bidder, as part of the Tendering process or otherwise, and the Bidder shall maintain strict confidentiality in respect of such Confidential Information, and in an event the degree of confidentiality shall be less than the Bidder uses to protect its own confidential and proprietary information.
3. The Bidder agrees to indemnify the Authority against all losses, damages, claims, or expenses incurred or suffered by the Authority as a result of the Bidder’s breach of this Agreement.
4. Notwithstanding the foregoing, the Bidder acknowledges that the nature of activities to be performed as part of the Tendering process or thereafter may require the Bidder’s personnel to be present on premises of the Authority or may require the Bidder’s personnel to have access to software, hardware, computer networks, databases, documents, and storage media of the Authority while on or off premises of the Authority.
5. The Bidder shall establish and maintain appropriate security measures to provide for the safe Custody of the Confidential Information and to prevent unauthorised access to it.
6. The Bidder agrees that upon termination/expiry of this Agreement or at any time during its term, at the request of the Authority, the Bidder shall promptly deliver to the Authority the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees, or advisors based on the Confidential Information and promptly certify such destruction.
7. If the Bidder here to becomes legally compelled to disclose any Confidential information, the Bidder shall notify the Authority within 24 hours and render best effort, Assistance to the Authority to enable the Authority to prevent or minimize to the extent possible, such disclosure. Bidder shall not disclose to a third party any Confidential Information or the contents of this RFP without the prior written consent of the Authority.
8. The Bidder understands and acknowledges that any disclosure or misappropriation of any of the Confidential Information in violation of this Agreement may cause the Authority irreparable damage, the amount of which may be difficult to ascertain and, therefore, agrees that the Authority shall have the right to apply to a court of competent jurisdiction for an order restraining any such further disclosure or misappropriation and for such other relief as the Authority shall deem appropriate. Such right of the Authority shall be in addition to Remedies otherwise available to the Authority at law or inequity.

For and on behalf of:
For Authority
(Authorised Signatory Office Seal:)

For Bidder
(Authorised Signatory Office Seal:)

Name:

Name:

Designation:

Designation:

Date:

Date:

Place:

Place

By Speed Post/Email

ELECTION COMMISSION OF INDIA

NIRVACHAN SADAN, ASHOKA ROAD, NEW DELHI -110001

No.23/EPIC Security/2021-ERS

Dated: 18th January, 2022

To,

The Chief Electoral Officers
of all States/UTs

Subject: New security Features for the Colour PVC EPICs– regarding.

Sir/Madam,

In an effort to prevent electoral fraud, Elector's Photo Identity Card (EPIC) was introduced by the Commission in the year 1993. The work of printing and delivering EPICs has been executed at the level of the CEO Office in each State/UT.

2. With the passage of time and in view of major advances in technology, the Commission has decided that the **quality of cards, security features and other specifications** shall be further improved. New Security features of EPIC shall be as under: -

1. The new PVC EPIC will be horizontal in shape with following size: -
 - a. Card size:
CR 80 (86mm × 54mm × 0.76mm) variation permissible of plus and minus 5%
 - b. Thickness:
760 microns (plus and minus 10%)
2. **Hologram:** Hologram size (after stamping): 16mm x 12mm. To be hot stamped made up of 19-23 Micron polyesters film of Gold/ Silver shade.
3. **Micro text:** Text as the border of the Photograph in size 19 to 25 micron.
4. **Ghost image printing:** Elector Photograph (Front side).
5. **Guilloche pattern** on the base of the card (Three colour guilloche design).
6. **QR Bar code** with 3000+ text characters.

3. The specifications of the PVC EPIC with new security features and specifications of the Hologram which needs to be hot pressed on PVC EPIC are enclosed herewith **Annexure – A** and **Annexure - B**.

4. EPIC shall be supplied with prescribed security features and personalization details printed upon them.

5. **CEOs shall select** "Colour PVC Card manufacturer cum security printer"-with in-house printing facilities on PVC sheet incorporating security features and personalization capacity.
6. EPIC being an important identity card, CEOs shall ensure that only competent card printers as well as hologram printers who are currently supplying Visa Card or Master Card or RuPay or RBI or IBA or PVC Aadhaar Card, having ISO 27001 and ISO 9001 certificates, and are having requisite installed capacity to manufacture EPIC Cards (as per the requirement of the State/UTs) are empaneled at the State/UT level.
7. The hologram manufacturer should also be a member of Authentication Solution Providers Association (ASPA), International Hologram Manufacturers Association at (IHMA) ISO 9001 certifications and must be certified under Security Certification – TUV-ASPA (Formerly known as HOMAI) Hologram Security Standards.
8. Relevant Financial Rules of the State/UT shall be followed while selecting vendors.
9. EPICs will be delivered to the electors as per the directions of the Commission contained in its letter Nos.-23/EPIC Security/2021-ERS, dated 05/10/2021 and 23/ID/2021-ERS dated 22/06/2021. Card Printer shall have facility of auto enveloping and will deliver the EPICs in the covers as per the instructions contained in above mentioned letters so that Postal Department could further distribute these to the concerned electors.
10. All the CEOs are requested to switch to new PVC EPIC on or before 1st April, 2022, however, CEOs of poll going states of Goa, Manipur, Punjab, Uttar Pradesh and Uttarakhand will be required to switch over to new PVC EPIC within one month of completion of elections.

Yours faithfully,

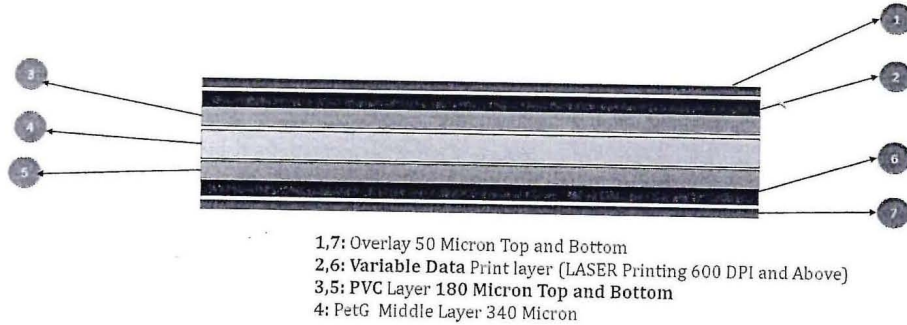


(RAKESH KUMAR)
SECRETARY

SPECIFICATIONS OF CARD:

- a. **Card type:**
All new cards will be printed on a PVC sheet with a coloured photograph. Material Poly Vinyl Chloride, Glossy/Mat finishing (PVC)+ Polyethene Terephthalate Glycol (PETG).

Proposed layering of EPIC card



- b. **Card size:**
CR 80 (86mm x 54mm x 0.76mm) variation permissible of plus and minus 5%
- c. **Thickness:**
760 microns (+/-10%)
- d. **Lamination (Overlay)**
Glossy/Mat finishing
- e. **Design & Layout:**
Indicative design as provided by ECI. The Election Commission may alter the design, colour scheme and layout at any time.
- f. **ISO Standard:**
CR-80 type adhering to ISO/IEC 7810 /10373 standards

Hologram hot stamping

1. The exact number of holograms received in the reel from hologram manufacturer must be documented by the card printer as a secure document.
2. Card printer shall get required tests of holograms conducted before stamping to card printers.

OTHER FEATURES

1. Relief tint of "Election Commission of India" in bilingual, i.e., English & Hindi.
2. The National Emblem is printed on the upper left-hand corner, and the Election Commission of India logo is printed in colour on the upper right-hand corner.
3. Personalization:-

Front and Back of new EPIC



Front side



Back side

SECURITY OF DATA

- Standard guidelines of the Election Commission and Information Security (Categorized) to be followed.
- The Digital Certificate/HSM required for data encryption will be procured by the Card Printer and public key to be shared with CEO.
- Sorting of data - "Collating and sorting software, card tracking number etc."

SPECIFICATIONS OF HOLOGRAM

To manufacture & supply **Security Holographic Hot stamping Foil** (Gold/Silver Foil) for EPIC PVC Cards as per the holographic features prescribed by Election Commission of India (ECI). The bidder shall NOT outsource hologram master work (or any other intermediate process) to any other organization, and must have complete in-house infrastructure to manufacture EPIC hologram as per the specifications as mentioned below.

S.No.	Area	Requirement
1.	Holographic Features	Indicative list of high security anti-counterfeiting holographic features are: Overt: <ul style="list-style-type: none">• Motion Effects• Multi-channel Effects• True Color Effects• Gradient Effects Covert: <ul style="list-style-type: none">• Micro Security Features• CLR based Effects Forensic: <ul style="list-style-type: none">• Nano Security Features
2.	Hologram Size	Hologram size (before stamping) : 20mm x 15mm Job size or die size(after stamping) : 16mm x 12mm
3.	Hologram Type	The security hologram must be suitable for hot stamping on EPIC card.
4.	Film Type	Vacuum metalized, 19 to 23 micron polyester film of Silver and Gold shade to be used.
5.	Adhesive	Thermo Plastic polymer based adhesive to be used.
6.	Hologram color	Gold/Silver Foil to be used.
7.	Numbering	Each hologram has to be serially numbered to ensure proper accountability of the holographic hot stamping foil (numbering must not vanish by rubbing fingers upon it). Numbering may be on the holographic hot stamping foil over the holographic design or on the foil. However, upon hot stamping it must not get transferred on to the card.

- The diagrammatic representation of the ECI hologram:

Sample of Hologram



To ensure that the hot stamped hologram is durable each order delivery should be accompanied by a "quality test report from a Govt. Lab" based on the following tests: -

A) Chemical:

S.No.	Agent	Total Time	Concentration
1	Petrol	5 minutes	Pure
2	Diesel	5 minutes	Pure
3	Hot water (65°C)	30 minutes	Pure
4	Normal Soap Water	1 hour	5%

B) Physical Checks:

S.No.	Agent	Test Procedure
1	Image Quality	Check visually for the Brightness, visible defects/spots.
2	Flakes	The stamped image should be free from flakes along the sides of the hot stamping area.
3	Smudge Test	Briskly rub the image with your finger about 10 to 12 Times & check visually for any deterioration to the image.
4	Tape Test	Apply 3M 810 Scotch tape (Magic Tape), on the sample & pull it abruptly in a single jerk at 25° angle to check visually for any residue on the Tape. The sample should withstand Tape Test without peel-off.
5	Effect of Humidity	Exposing the card to 27°C at 65% RH for 18 hrs. in a Humidity Chamber.
6	Effect after exposing the card to 50°C & 80% RH for 18 hours	Expose the card to 50°C & 80% RH for 18 hours in a humidity chamber & check visually for any deterioration to the image after rubbing the surface with tissue paper.

By Speed Post/Email

ELECTION COMMISSION OF INDIA

NIRVACHAN SADAN, ASHOKA ROAD, NEW DELHI -110001

No.23/EPIC Security/2021-ERS

Dated: 19th May, 2022

To,

The Chief Electoral Officers
of all States/UTs

Subject: New security Features for the Colour PVC-EPICs– further guidelines- regarding.

Reference: Commission's Letter No. 23/EPIC Security/2021-ERS, dated 18.01.2022.

Sir/Madam,

I am directed to state that guidelines and instructions on new security features for colour PVC-EPICs have already been issued vide Commission's letter cited under reference above. In continuation of the said letter and in order to bring uniformity and standardization of the specifications of both EPIC and Hologram, the Commission has further clarified the quality, security features and other specifications of the new secured PVC-EPIC, as under: -

Front Side Specification/dimension:-

- a) **National Emblem:** To be printed on the upper left-hand corner (5.00 mm from left edge & 4.00 mm from top edge).
- b) **EPIC Number:** To be printed below the National emblem (5.00 mm from left edge and 2.00 mm above the photograph). Font of the EPIC number printed on both sides of card should be "Arial Rounded Bold MT" for better readability by the Optical Character Readers (OCRs).
- c) **Photograph of Elector:** To be printed at the left corner below the EPIC number
Width – 21.00 mm, Height – 28.00 mm
(3.00 mm from the left edge and 5.00 mm above the bottom edge).
- d) **ECI Logo:** To be printed on the upper right-hand corner (4.00 mm from top edge and 5.00 mm from right edge)
- e) **Ghost Image:** Width – 7.00 mm, Height – 9.00 mm (5.00 mm from right edge and 31.00 mm from bottom edge)

Page 1 of 8

- f) **Ghost EPIC Number:** To be printed at right side of Ghost image in vertical (bottom-up) direction (2.00 mm from the right edge)
- g) **Hologram:** At the right bottom corner (3.00 mm from the edges)
- h) **Elector's Name, Relative's Name, Gender and Date of Birth** to be printed (in English and regional language) on the right-side of photograph of the elector. Either Age or DOB shall be printed on the card. Age will be printed in case DOB is not available in the E-Roll data.

Back Side Specification/dimension:-

- a) **Facsimile signature of Electoral Registration Officer:** To be printed on the top left corner.
 - b) **QR code:** To be printed below the "facsimile signature of ERO" on the left side of the card (4.00 mm from the left edge and 14.00 mm below the top edge)
 - ✓ Width – 25.00 mm, Height – 25.00 mm.
 - ✓ QR code will consist of EPIC No, Name of Elector, Relative's Name, Date of Birth/Age.
 - ✓ Provision to read QR code printed on the card will be made available on Voter Helpline App (VHA).
 - c) **EPIC Number:** To be printed below the QR code (7.00 mm from the left edge and 10.00 mm above the bottom edge)
 - d) **Elector's Address, Electoral Registration Officer and AC/PC No. & Name and 'Note'** are to be printed in bilingual (in English and regional language) to the right side of QR code.
 - e) **Voter Helpline No. (1950), CEO's website address and Old EPIC No. (if available)** issued to the elector, if any, are to be printed below the horizontal red line, at the bottom of the card.
2. A sample EPIC card along with prescribed specifications/dimensions of both front and back sides of EPIC is enclosed herewith as Annexure-'A' for reference. The detailed specification of Hologram to be printed on the card is enclosed herewith as Annexure-'B'.
3. The National Emblem, Election Commission of India, Elector Photo Identity Card, ECI Logo, Micro-text along the border of photograph of elector, CEO's website address, Helpline Number, should be pre-printed on the card. In addition to this, background on both sides of the Card should also be pre-printed.

4. The personalization of card (*Name of Elector, Relative's Name, Photograph, Ghost Photograph, Gender, Date of Birth/Age, Address, No. & Name of AC/PC, Designation and Facsimile signature of ERO, Issue Date, "Note", EPIC Number (both sides), Ghost EPIC Number, Old EPIC Number (if available), QR Code*) shall be done using EPIC printing tool in ERO-Net.
5. All the specifications have to be executed adhering to the error margins specified under the Model RFP for EPIC Printers & Model RFP for Hologram and international standards, wherever not specified in the RFP.
6. All concerned may be informed accordingly.

Yours faithfully,



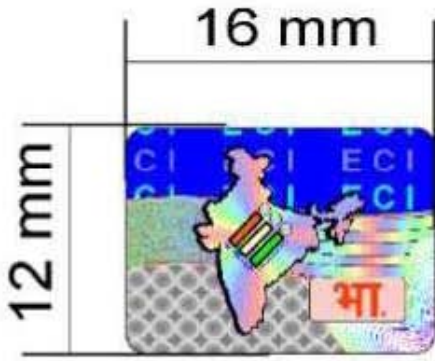
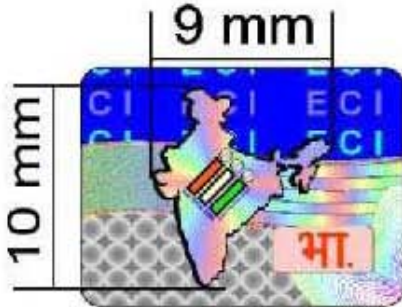
**(AJAY KUMAR)
SECRETARY**

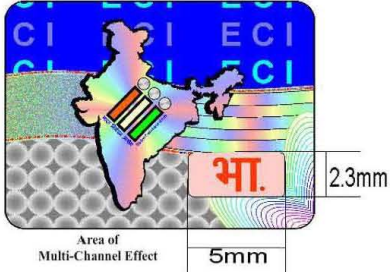
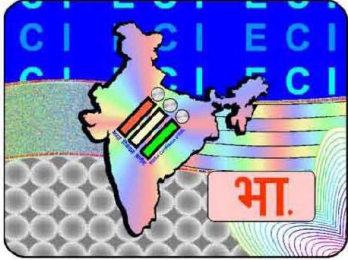
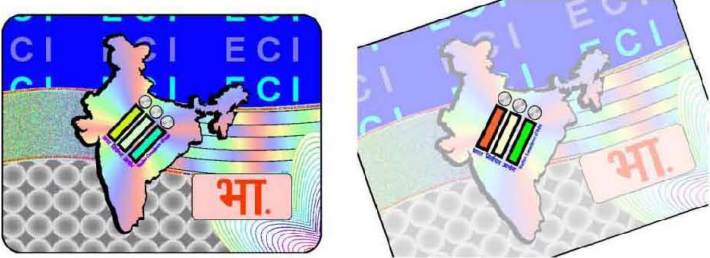
Sample Front and Back of New Secured EPIC with detailed specifications/dimensions


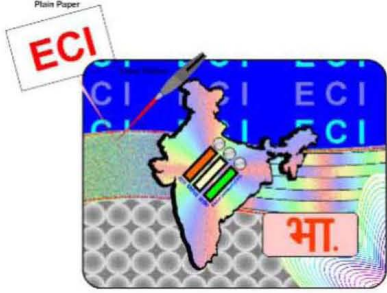
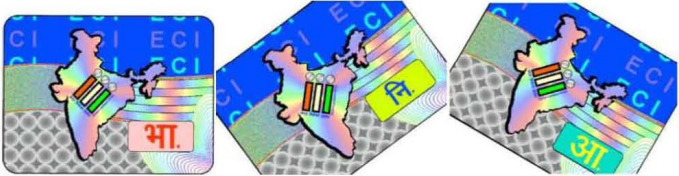



Specifications of HOLOGRAM

The Hologram shall be hot stamped on the EPIC to provide additional security features. The security features of the hologram along with its dimensions are as follows:-

Sr. No.	Detailed description
1	<p>The final hologram dimensions after hot stamping shall be 16mm X12mm.</p>  <p>16 mm</p> <p>12 mm</p> <p>Finish Size</p>
2	<p>The size of the map of India in the hologram shall be 9mm X 10 mm.</p>  <p>9 mm</p> <p>10 mm</p>
3	<p>The area of multi-channel effect has been marked and highlighted.</p>

	
4	<p>Motion Effect takes place in the blue background where the letters ECI move horizontally out and in simultaneously giving a wavy effect.</p> 
5	<p>True Colour effect – The true colours of the ECI symbol are manifested only at certain tilt and at all other angles you can see different colours.</p>  <p style="text-align: center;">Not true Colours True Colours</p>
6	<p>Gradient effect has been introduced all over country's map and the adjacent silver bands on the right and left of the country map. The gradient effect manifests like a rainbow effect in the mentioned areas of the hologram.</p>

	
7	<p>CLR Based effect – The Letter ECI are shown on plain paper when the laser is pointed at a certain region of the hologram.</p> 
8	<p>Multi-channel effect – 3 channel flip effect shows the first three letters of Bharat Nirvachan Aayog (Bha, Ni, Aa in Hindi) as follows.</p> 
9	<p>Micro Security features – There are two lines running across the hologram horizontally. The first line contains the micro-text “ELECTION COMMISSION OF INDIA” and the second line contains the micro-text “NAME OF STATE/UT” as shown below.</p>

	
<p>10</p>	<p>Nano-security feature – The region just next to the right side of Sikkim has the Nano text “ECI” embedded. This security feature needs a very high-resolution lens to read it hence detecting this would be a big challenge, thereby discouraging forgery.</p> 