

PKI in e-Procurement – A Case Study

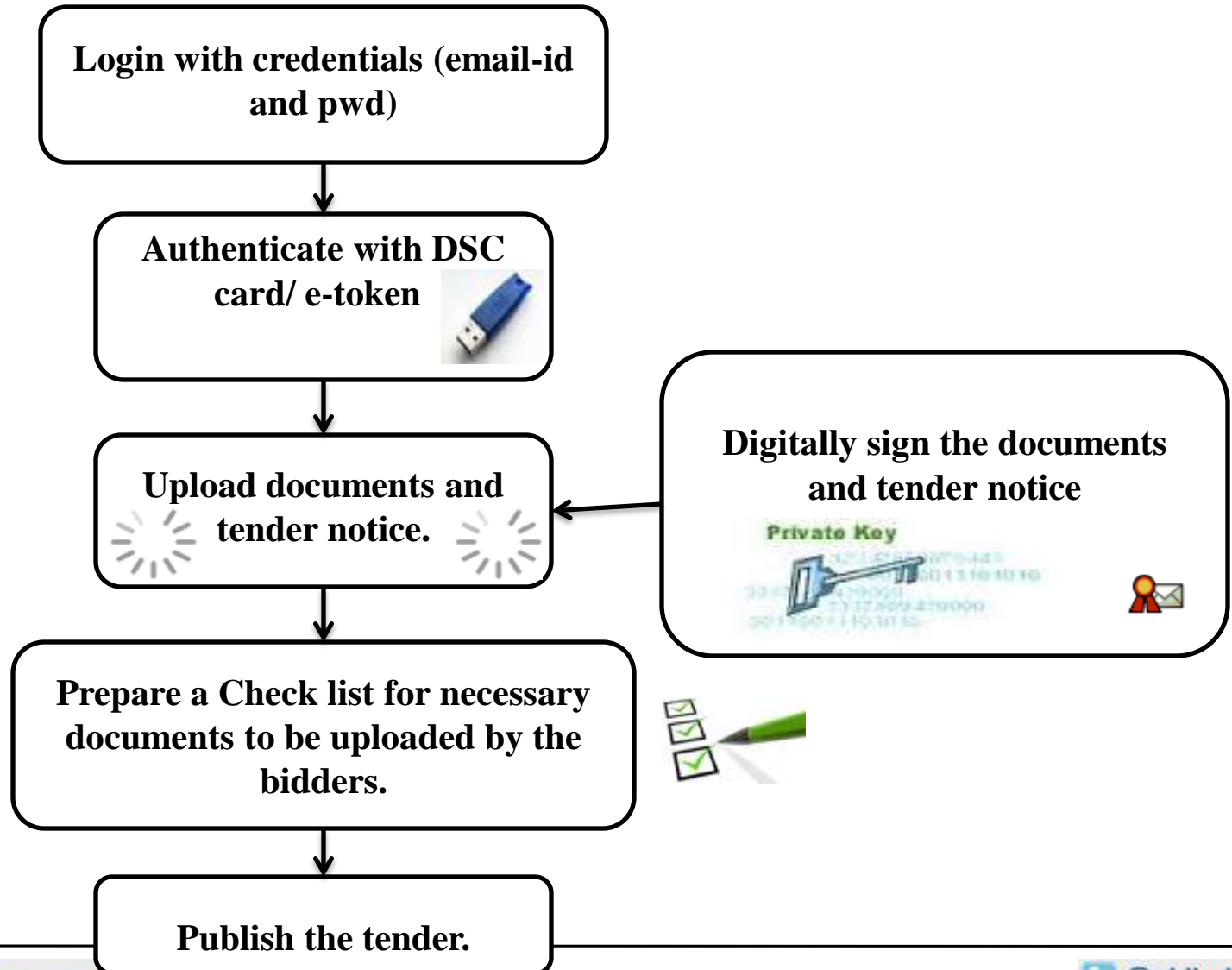
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Centre for Development of Advanced Computing (C-DAC)
Bangalore

Under the Aegis of

Controller of Certifying Authorities (CCA)
Government of India

Tender Creation Flow




Tender Creation Flow

WELCOME
PLEASE ENTER USERNAME AND PASSWORD

EMAIL ID :

PASSWORD :

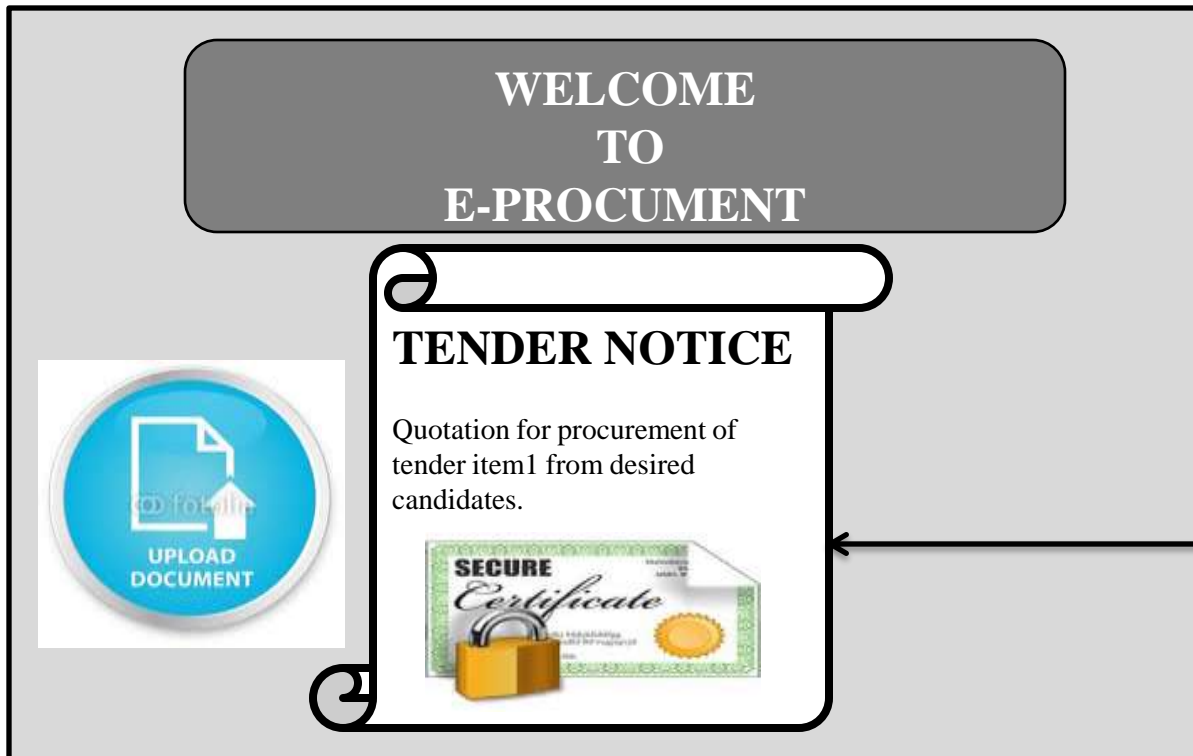
SUBMIT



WELCOME
TO
E-PROCUREMENT

Authenticate with DSC e-token





WELCOME TO E-PROCUREMENT

Check list for necessary documents to be uploaded by the bidders.



Document for technical specification.



Document for financial specification.



Document for secondary specification.



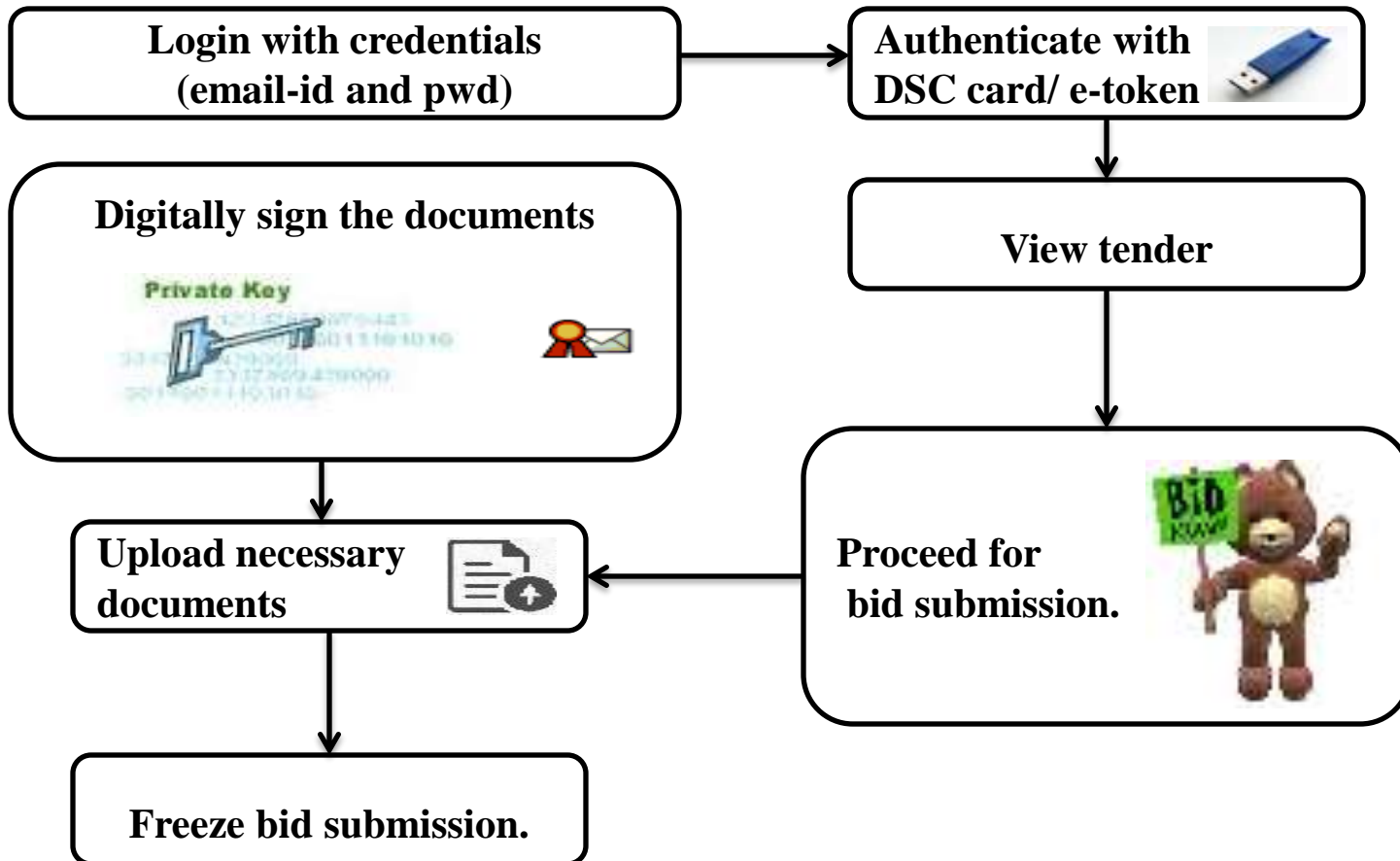
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Notice inviting tender for procurement of tender item1.

PUBLISH



Bid Submission Flow



NOTE: The documents that are uploaded by the bidder are encrypted with tenderer's public key, so that tenderer can only decrypt.



Bid Submission Flow

BIDDER LOGIN

WELCOME

PLEASE ENTER USERNAME AND PASSWORD

EMAIL ID :

bidder@gmail.com

PASSWORD :

SUBMIT



BIDDER AUTHENTICATION

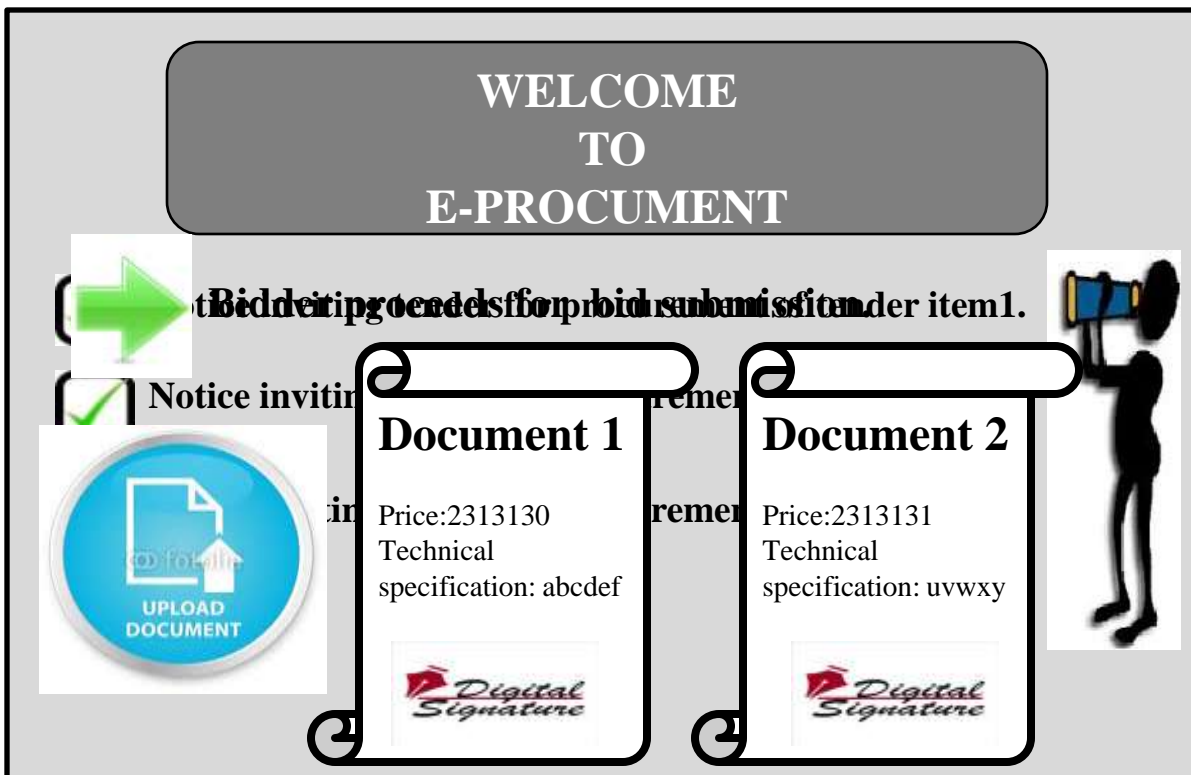
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Bid Submission Flow

BIDDER VIEW TENDER



BIDDER PROCESSING TENDER

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Your bid has been successfully submitted.

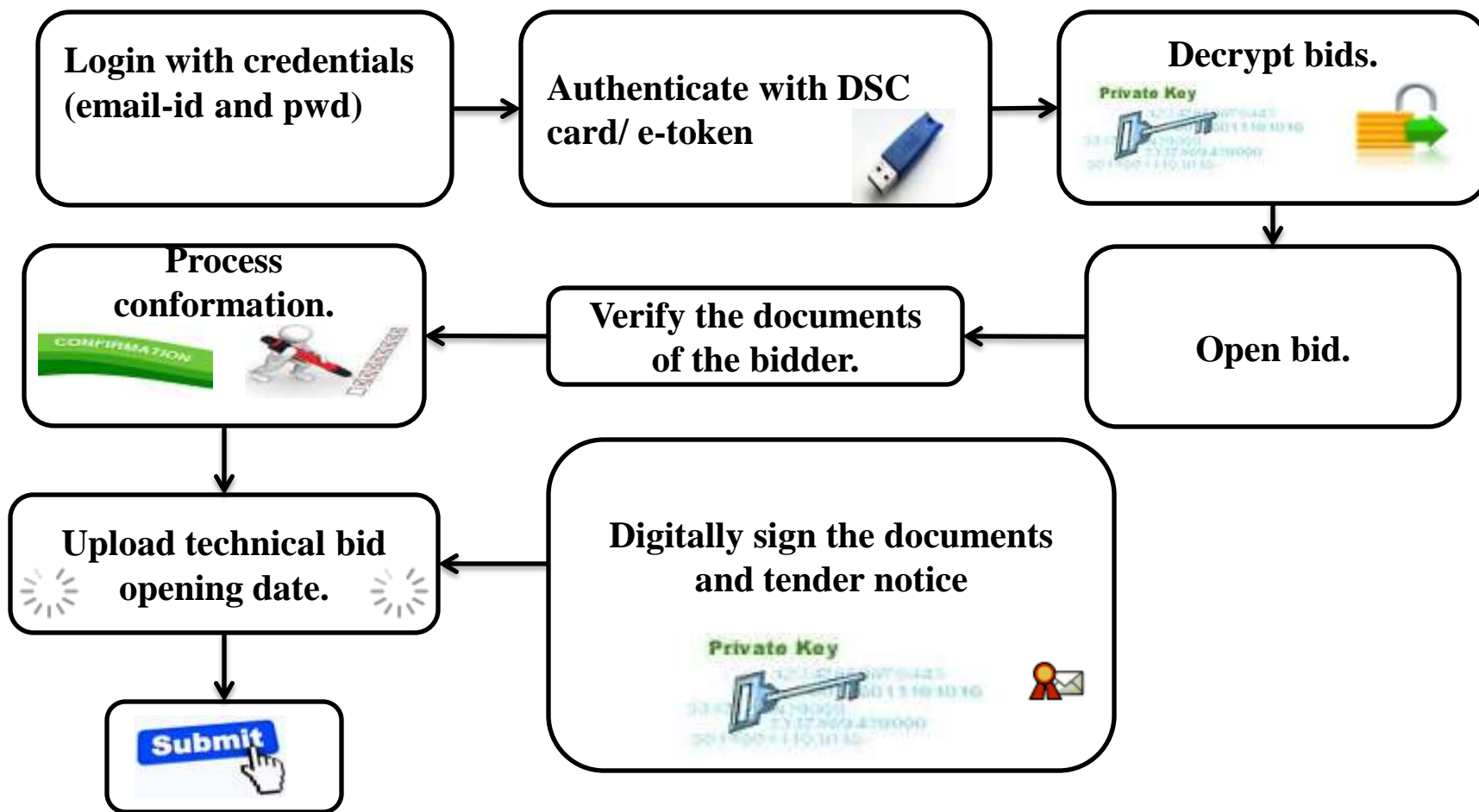
Bidder freezes the bid
and no modification
can be done.



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Tender Bid opening Flow



Tender Bid opening Flow

TENDERER LOGIN

WELCOME

PLEASE ENTER USERNAME AND PASSWORD

EMAIL ID :

tenderer@gmail.com

PASSWORD :

SUBMIT



TENDERER AUTHENTICATION

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Tender Bid opening Flow

TENDERER DECRYPTS AND OPENS BID

**WELCOME
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Decrypt the bids that has been submitted.



Open the bids that has been submitted.

Tender Bid opening Flow

TENDERER VERIFIES DOCUMENTS

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Verification of documents of the bidder.



Document 1
submitted by bidder.



Document 2
submitted by bidder.



Tender Bid opening Flow

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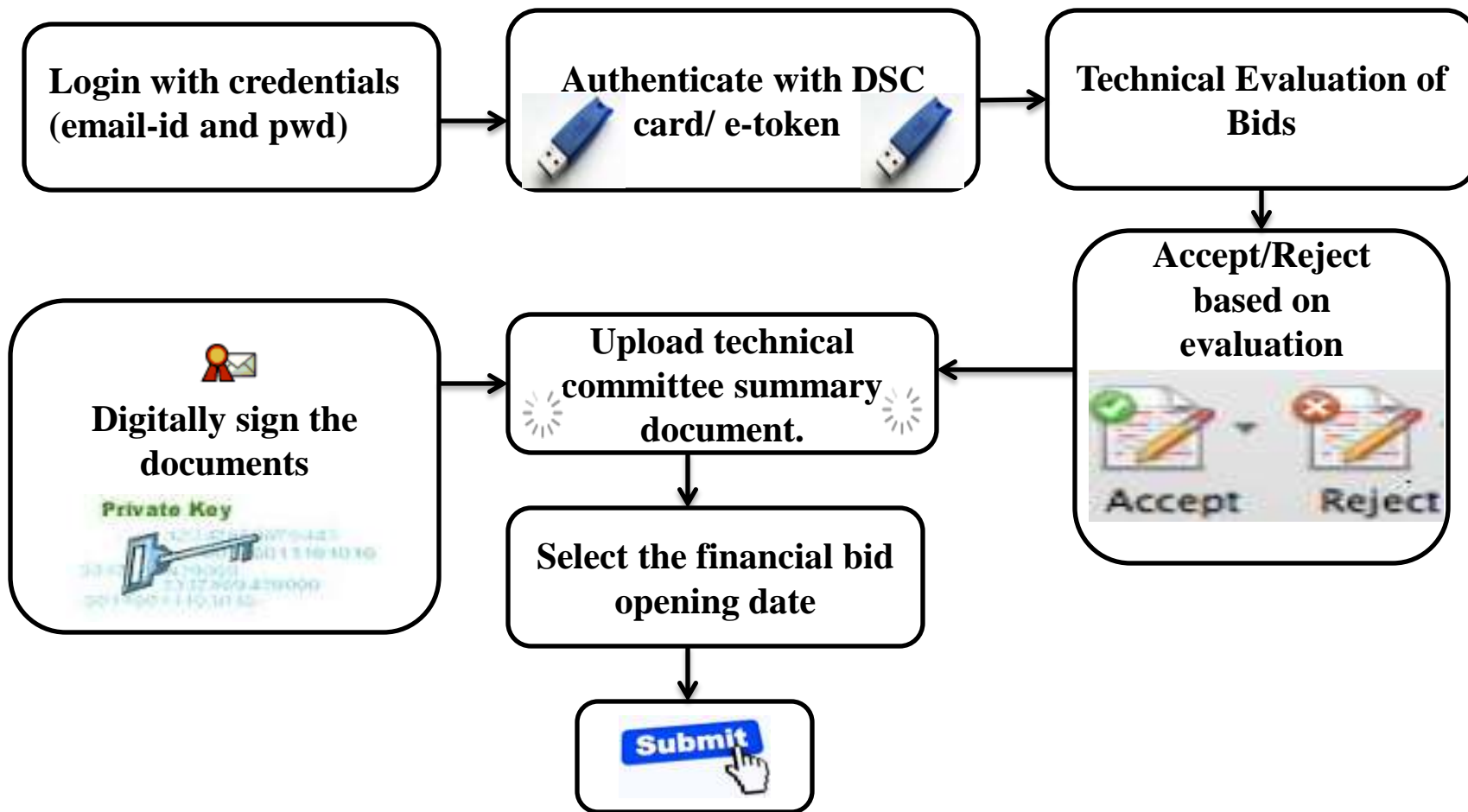
Select the technical bid opening date: 22/04/2015



Technical bid opening date has been uploaded successfully.

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Technical Evaluation flow

TENDERER LOGIN

WELCOME

PLEASE ENTER USERNAME AND PASSWORD

EMAIL ID :

tenderer@gmail.com

PASSWORD :

SUBMIT



TENDERER AUTHENTICATION

WELCOME
TO
E-PROCUREMENT

Authenticate with DSC e-token



Technical Evaluation flow

TENDERER EVALUATE BID

WELCOME
TO
E-PROCUREMENT

Technical evaluation of bids.



Accept or reject the bid.



Technical Evaluation flow

TENDERER ACCEPT OR REJECT BID

**WELCOME
TO
E-PROCUREMENT**

Technical evaluation of bids.



Accept or reject the bid.



TENDERER UPLOADS SUMMARY

WELCOME
TO
E-PROCUREMENT



TECHNICAL
COMMITTEE
SUMMARY
DOCUMENT



Digitally sign the
technical committee
summary document.



Technical Evaluation flow

QUALIFICATION OF BIDS

WELCOME TO E-PROCUREMENT

N number of bids are submitted. Among the submitted bids
X number of bids qualify for next round.

- Quotation bidders 1.
- Quotation bidders 2.
- Quotation bidders 3.
- ⋮
- Quotation bidders 4.
- Quotation bidders 5.

TENDERER SUBMITS SUMMERY

**WELCOME
TO
E-PROCUREMENT**

Select the financial bid opening date: 22/04/2015

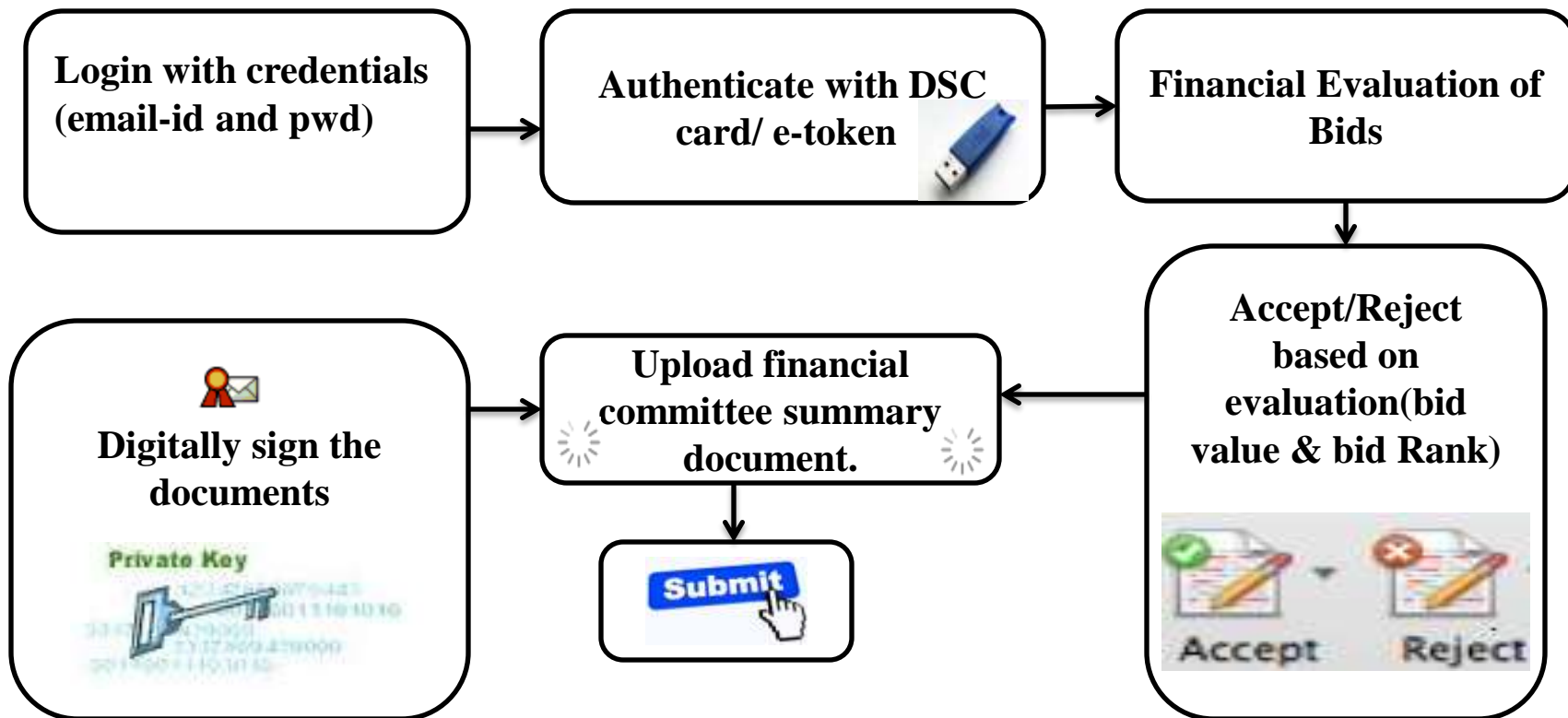


Financial bid opening date has been uploaded successfully.

SUBMIT



Financial Evaluation flow



TENDERER LOGIN

WELCOME

PLEASE ENTER USERNAME AND PASSWORD

EMAIL ID :

tenderer@gmail.com

PASSWORD :

SUBMIT



TENDERER AUTHENTICATION

WELCOME
TO
E-PROCUREMENT

Authenticate with DSC e-token



Financial Evaluation flow

TENDERER EVALUATE BID

WELCOME
TO
E-PROCUREMENT

Financial evaluation of bids.



Accept or reject the bid.



Financial Evaluation flow

TENDERER ACCEPT OR REJECT BID

**WELCOME
TO
E-PROCUREMENT**

Financial evaluation of bids.



Accept or reject the bid.



Financial Evaluation flow

TENDERER UPLOADS SUMMARY

**WELCOME
TO
E-PROCUREMENT**



**FINANCIAL
COMMITTEE
SUMMARY
DOCUMENT**



**Digitally sign the
financial committee
summary document.**

Digital Signature
Certificate



TENDERER SORTS THE BIDS

WELCOME TO E-PROCUREMENT

Tenderer sorts the bids based on the quote value.



1. Quotation from bidder1 of value Rs.00001.
2. Quotation from bidder2 of value Rs.00002.
3. Quotation from bidder3 of value Rs.00003.

TENDERER SUBMITS SUMMARY

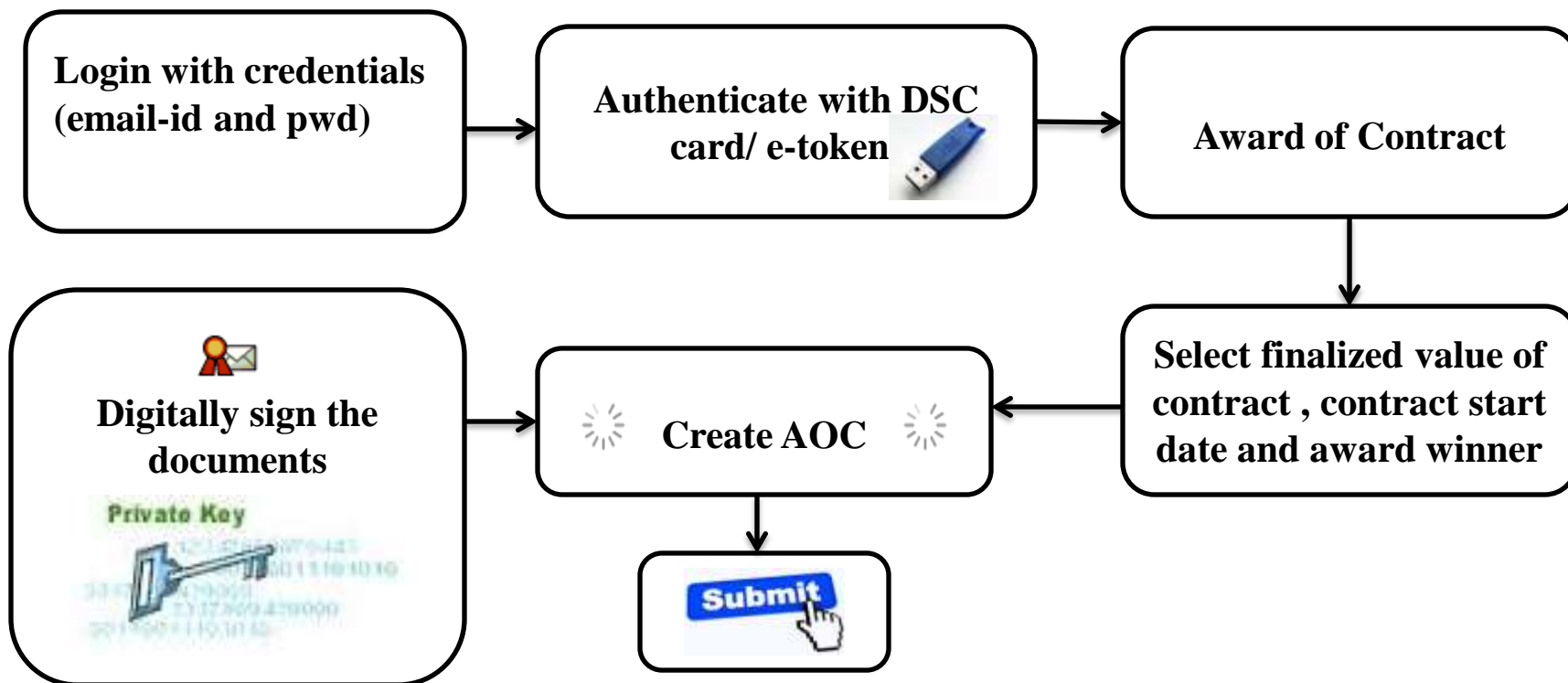
**WELCOME
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E-PROCUREMENT**

Financial committee summary document been uploaded successfully.

SUBMIT



Award of Contract (AOC) flow





Award of Contract



TENDERER LOGIN

WELCOME

PLEASE ENTER USERNAME AND PASSWORD

EMAIL ID :

tenderer@gmail.com

PASSWORD :

SUBMIT



TENDERER AUTHENTICATION

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AWARD OF CONTRACT

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AWARD OF CONTRACT

Value of contract: 20000

Contract start date: 25/04/2015

Contract award winner: XYZ
Pvt. Ltd



Award of Contract



TENDERER CREATE AOC

**WELCOME
TO
E-PROCUREMENT**

Create Award Of Contract(AOC)



AWARD OF CONTRACT

Contract of the tender is
given to XYZ Pvt. Ltd



**Digitally sign
the award of
contract.**



TENDERER UPLOADS NOTICE

**WELCOME
TO
E-PROCUREMENT**



The contract has been given to XYZ Pvt. Ltd..

SUBMIT





Thank You

pki@cdac.in