



स्थानिक स्वराज्य संस्थांच्या
निवडणुकीच्या दरम्यान मतदान
केंद्रावर वेब कास्टिंगची (Webcasting)
सुविधा उपलब्ध करणेबाबत.

राज्य निवडणूक आयोग, महाराष्ट्र

क्र.रानिआ-२०२५/Webcasting/प्र.क्र.०९/का.१२

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आदेश

राज्यातील स्थानिक स्वराज्य संस्थांच्या निवडणुका मुक्त, निर्भय व पारदर्शक वातावरणात पार पाडण्याच्यादृष्टीने विविध उपाययोजना करण्याचा निर्णय घेण्यात आला आहे.

त्यानुसार महानगरपालिका व जिल्हा परिषदा/ पंचायत समित्यांच्या निवडणुकीच्या वेळेस मतदान केंद्रावर होत असलेल्या घटनेवर प्रभावीपणे देखरेख ठेवण्यासाठीच्या दृष्टीकोनातून, तसेच मतदान प्रक्रिया निर्विघ्नपणे पार पाडण्याच्यादृष्टीने निवडणुकीच्या वेळी मतदान केंद्रावर वेब कास्टिंग (Webcasting) करण्याचा निर्णय घेण्यात येत आहे.

ज्या मतदान केंद्रावर वेब कास्टिंगची (Webcasting) सुविधा उपलब्ध करून द्यावयाची आहे, त्या मतदान केंद्राची निवड खालील निकषाद्वारे करण्यात यावी:-

- १) यापूर्वी ज्या मतदान केंद्रावर स्थानिक स्वराज्य संस्थांच्या निवडणुकीत हिंसाचाराची घटना घडलेली आहे.
- २) यापूर्वी ज्या मतदान केंद्रावर तोतयेगिरीची (Impersonation) घटना मोठ्याप्रमाणावर झालेली आहे किंवा प्रदत्त मतांची संख्या, त्या मतदान केंद्राची एकूण झालेल्या मतदानाच्या एक टक्क्यापेक्षा जास्त आहे.
- ३) ज्या मतदान केंद्रावर यापूर्वी झालेल्या स्थानिक स्वराज्य संस्थांच्या निवडणुकीदरम्यान इलेक्ट्रॉनिक मतदान यंत्रासोबत (EVM) गैरवर्तन किंवा हिंसाचार घडलेले आहे.

वेब कास्टिंगची (Webcasting) सुविधा त्याच मतदान केंद्रात करता येईल, ज्या ठिकाणी Internet/ Mobile Internet ची सुविधा उपलब्ध आहे. Internet/ Mobile Internet ची सुविधा उपलब्ध नसल्यास, CCTV ची व्यवस्था करण्यात यावी.

उपरोक्त निकषांनुसार मतदान केंद्राची निवड केल्यानंतर वेब कास्टिंगची (Webcasting) सुविधा पुरविणारी संस्था (Agency) नेमण्यासाठी शासनाने विहित केलेली प्रशासकीय तथा वित्तीय नियम व कार्यपध्दती (उदा. निविदा प्रक्रिया, दरपत्रक मागविणे इत्यादी) चा अवलंब करणे अनिवार्य राहिल. तसे करताना लोकसभा/ विधानसभा निवडणुकीच्या वेळेस निविदा प्रक्रिया केली असल्यास, त्यानुसार देखील निविदा प्रक्रिया करता येईल.

वेब कास्टिंगसाठी (Webcasting) आवश्यक असलेले (Technical Specification Document) सोबत जोडण्यात येत आहे.

सेवा पुरविणाऱ्या ज्या संस्थेसोबत वेब कास्टिंगसाठी (Webcasting) करार करण्यात येईल, त्या संस्थेकडून वेब कास्टिंगची (Webcasting) संपूर्ण (Recording Hard Disk) रेकॉर्डिंग हार्ड डीस्कवर घेऊन निवडणुकीच्या वेळी संबंधित नियम/ अधिनियमानुसार ते अभिलेख्यात जतन करण्यात यावे.

महानगरपालिका निवडणुकीसाठी वेब कास्टिंगवर (Webcasting) होणारा खर्च हा संबंधित महानगरपालिकांनी निवडणुकीसाठी केलेल्या अर्थसंकल्पीय तरतुदीतून करावा. तसेच जिल्हा परिषद/ पंचायत समिती निवडणुकीसाठी संबंधित जिल्हाधिकारी यांनी शासनाच्या ग्राम विकास विभागाकडून निवडणुकीकरिता प्राप्त होणाऱ्या निधीतून करावा.

मा. राज्य निवडणूक आयुक्त यांच्या आदेशानुसार,



(सुरेश कांकाणी)

सचिव,

राज्य निवडणूक आयोग, महाराष्ट्र

प्रत माहिती व आवश्यक कार्यवाहीसाठी:-

- १) मा. प्रधान सचिव, नगर विकास विभाग, मंत्रालय, मुंबई-३२.
- २) मा. प्रधान सचिव, ग्राम विकास विभाग, बांधकाम भवन, फोर्ट, मुंबई-०१.
- ३) आयुक्त, महानगरपालिका (सर्व संबंधित)
- ४) जिल्हाधिकारी (सर्व संबंधित)
- ५) निवड नस्ती.

Suggestive Technical Specification Document for Installation, Implementation of webcasting solution on turn-key basis for Local Body Elections

Scope of Work

The Successful bidder has to undertake the Live web streaming (both audio & video) of polling day events during the Local Body Elections with the installation of the necessary suitable, proven web based web streaming software along with the supply of other related items as per the detailed Scope of Work given below.

1. Supply, installation, commissioning and implementation of the web based audio & video streaming software in the server set up in the secured cloud environment.
2. Supply and installation internet connectivity for use in the identified polling stations on the polling day along with one manpower per polling station, to operate them to web stream the live data.
3. Supply and installation of One LED TV as per the specifications for use in the office of the Returning Officer (RO), on the polling day to operate them to view the live data.
4. The Video Streaming solution should be able to display multiple streams happening at the same time, in the Polling stations on TV (s) for viewing in the Offices of the ROs
5. Training manual and training schedules at each DEO office for the officials on the operation of the web streaming software.
6. Establishment of the centralized 24/7 Help desk with minimum of at least 3 seaters to manage and fix the complaints/issues coming up on the Polling days.

Technical Specifications

Task 1: Hosting of the web based streaming software:

The bidder shall deploy suitably secured proven web based software, that has the ability to record both audio and video.

The key features of the software shall be:

1. Able to record video in H.264 compression or other equivalent open formats which can be read by a variety of open source software solution.
2. Able to record at least 4 kbps audio in a good quality. This may be either encoded within the video stream or recorded as a separate stream.
3. The camera should be wall mounted and fixed. It should be appropriately secured from physical damage.
4. The web camera should be so placed to cover the maximum possible area in polling station without hampering the secrecy of vote. The light and glare should be minimum

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- viewing in the Offices of the ROs.
- 19. The software shall list all polling stations with their respective webcast after collecting and updating the details and the application software design from the nodal officer.
- 20. The data should in no point be hosted outside India and bidder will not access the data unless authorised by the DEO.
- 21. The video recording of the live webcasting at server shall be done as per the instructions of the nodal officer and shall not be stored in any form in any type of devices outside RO's office after giving backup of all the videos to RO's office. The bidder shall add the digital video watermark in the background of the streaming videos.
- 22. Uploading of the videos shall be carried out by the manpower posted by the bidder at each identified place, using webcam/HD camera and connectivity of either 4G/3G/2G/broadband, WiMAX, DSPT etc., based on local availability.
- 23. At the end of each event, the web streamed data along with required reports, shall be made available within 4 days to the Client in a Hard disk for later retrieval and usage as necessary.
- 24. The Client shall facilitate the bidder in interaction with the telecom service providers to see that the connectivity is ensured during the events towards the smooth transmission of web streaming data.
- 25. The Client shall also ensure the safety of the equipment such as Laptops, internet connectivity devices, high end cameras etc., installed by the bidders at the respective places, till the events are over.
- 26. The bidder shall also develop an application software which monitors the data feed from each Polling Station on the polling day based on which the performance status of the data feed, and the live streaming at the offices of the RO/DEO, will be arrived on the Service Levels provided, to levy penalties as indicated under penalty clause. This software should be vetted by DEO a week before deployment. The bidder shall provide access to dashboard view for more than one locations, i.e. RO & DEO which should reflect point of failures, network status, recording status and downtime status. Network quality indicator on each camera should be made available in the User view mode and this should be computed and displayed automatically.

Task 2. Live Streaming and Recording of the Polling at Polling Stations

- 1. A pre-determined list of polling stations from where live web streaming will happen shall be shared with the bidder.
- 2. Number of Locations for Video & Audio Recording: (input numbers) (approximately)
- 3. The bidder has to supply and install the IP based web cameras, as per the minimum specification in the identified Polling stations. The web camera should have facility of local recording, with minimum of 3 Megapixel camera resolution. The camera should have night vision capability, wide angle with 30/ 170 degrees coverage. The camera should be having capability of 10x zooming. The camera should have minimum illumination of .05 lux.
- 4. The camera should support 16-4096 Kbps code rate, support constant bit rate/variable frame rate of up to 30 fps. Image Control: Backlight compression, Automatic white

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- balance, 3D digital noise reduction. The display should be supported is 1920 x1080.
5. The bidder has to provide the suitable internet connectivity on all locations of installation of cameras for the services rendered by the bidder.
 6. The bidder has to post one person at each identified polling station, with proper training on the usage of the web streaming software, using the camera and the internet connectivity on the day of polling and also during trial runs
 7. The bidder is required to have at least two dry/trial runs of the process, to satisfy the Client that their systems are in good working condition at least two days before the poll and the counting day.
 8. In case of Re-poll ordered at a booth under live web streaming, the web streaming of that re-poll shall continue to be the responsibility of the bidder. This will not entail additional financial commitment.
 9. The bidder shall also provide the following, in the offices of RO to view the live feeds of the polling day activities smoothly by providing LED TV 70 "
 10. The bidder shall ensure that the live feeds are transmitted in a secure manner to the server and then to the concerned officials up to the satisfaction of the nodal officer, for the duration when the operations are on.
 11. The bidder shall ensure that the recorded material transmitted does not fall into the hands of any party, not authorized by DEO to receive the same.
 12. The recorded material shall be the exclusive property of the DEO and neither the bidder nor any other party will be entitled to utilize the same.
 13. After the event is over on polling day, the supplied LED TV's and internet connectivity, have to be taken back and manpower has to be withdrawn by the bidder.
 14. The bidder shall provide adequate compute performance on the servers and storage along with suitable high speed internet / network bandwidth to accommodate the multiple video streaming.
 15. The Client will provide the list of mobile phone facilities of the election officials (that of the Presiding Officer / PO Officer), in an excel/CSV format, to the bidder, a few hours before the start of the election process for communication purposes.
 16. The video and audio should be live streamed to the Control centre via the server. The bidder should deploy the following resources on the days of polling and counting in each Control Centre
 17. The bidder shall provide the sufficient internet bandwidth for the live streaming of the poll day event.
 18. In case of any disruption due to internet connectivity, the streaming data has to be stored in the local Hard Disk and the same shall be made available at the end of the day to the officials concerned.
 19. Number of Days required for recording at each location : 1 day [References to Day means 24 hours or part thereof]

Task 3: Setting up a Help Centre & Deployment of Manpower

1. The bidder is required to deploy adequate manpower to meet all conditions of the



assignment. The following teams shall be required to be created.

2. Centralized Help Desk in District HQ operating under the Control of the Nodal Officer
3. Team with 3 seater minimum, shall be located in District HQ and shall assist all other locations to fix the issues that are coming up relating to this assignment.
4. The help desk should be operational on 3 days before polling and one day after polling, including the polling day. If there is a repoll, it should continue, till the end of the repoll.
5. Manpower: These personnel should be skilled in the application software being deployed by the bidder, their configuration, use, etc. They should be available to assist with any issues arising during the course of the assignment.
6. The CVs of all the personnel, being deployed should be provided as per Appendix-4. Each of the personnel should have at least two of the following with him while in duty. – A Passport, A Driving License, PAN Card, Aadhaar Card or other form of identity as specified by the Nodal Officer.
7. The following details shall be provided by the bidder in the CVs – Name, Date of Birth, and Copies of Identity cards as above, Permanent Address, Address during the last 10 years, Any Criminal or Civil Record, Educational Qualifications, Experience.
8. There may be Police / Security Clearance checks conducted against the personnel and the Client may ask for any or all personnel to be replaced, which shall be required to be complied with immediately.
9. The personnel shall be required to operate around day of polling process from each of the Centre posted, in each of the Electoral Division/Electoral College/Ward.
10. The personnel have to report for duty on one day before the polling day and should be available till the complete polling process is over.
11. Training of these personnel and the tasks shall include: Training the manpower in downloading the web streaming application and in the setting up of the entire recording system and allied issues, like connectivity, alert assistance etc. The training required will have to be conducted by the bidder, in the districts/at a suitable place for one or 2 days as decided before they are deputed to the concerned place for on duty.
12. Troubleshooting any hardware/software issues related to entire process of recording, streaming and monitoring.
13. Any other tasks found necessary for the successful live streaming of the videos.
14. The client will issue election duty certificate (EDC) or Postal Ballot to the manpower posted in the respective locations as necessary. The manpower shall be asked to report for duty to the concerned officials when posted.

Task 4. Development of Training Material

1. A detailed Training Material is required to be developed by the bidder as the part of the assignment. The training material is required for the following purposes:
 - a. For operating the web streaming Software / Cameras etc.
 - b. For Post event operation of the Video Surveillance footage.
2. The Training Material should be in the following formats:
 - a. Documentation: Text based training material in the form of documents showing pictures / images and text of How-To, Help Guides, etc.
 - b. Multimedia: Audio and Video content including animations, videos, etc. for

- intimated within 24 Hours time in advance.
- The quantity mentioned in the Tender document is tentative only. Payment will be released based on the quantity used at the site and the same has to be attested by Client.
 - The Successful Bidder shall be liable and / or responsible for the compliance of all Statutory Provisions and especially those relating to Labour Laws in respect of this Contract.

Release of Payment

The following are the conditions precedent for release of any payment by the Client:

- Signing of Contract
- Signing of Non-Disclosure Agreement (**specify format**) by all the persons involved in the assignment
- Submission of an irrevocable Bank Guarantee of the Contract amount in the format (**specify format**) specified to the Client.
- The following would be the Milestones and Payment

SN	Milestone	Approval	By Date
1.	Inception Report Submission	By RO	(Enter date)
2.	Training Documents and Multimedia content & Training for all officials concerned	By DEO	(Enter date)
3.	Two Trial runs and satisfactory Certificate before two days of poll day and counting day.	By RO	(Enter date)
4.	Submission of all other project deliverables and final report	By DEO and Payment in full	Within 15 days after the completion of polling and counting events

No advance Payment will be made

Service Level Agreement

- 100% Server, Network & Power Uptime SLA: The vendor should provide with 100% Server, Network & Power Uptime SLA as standard. This shall be applicable

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during the election day as declared by the client and shall be applicable for 24 hours or as decided by the client. The vendor should ensure

SERVICE AVAILABILITY	Deduction from total cost
99.9% to 100%	0%
98% to 99.8%	10%
95% to 97.9%	25%
90% and below	50%

2 The buffer should not happen in the streaming at the RO office. Vendor will develop a dashboard for reporting the buffer and failure.

Buffer and connection loss	Deductions from the total cost
<10 point failures	0%
>10 Points Failure	10%
>50 Points Failure	25%
>100 Point Failures	50%

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Appendix

Technical Specifications of the camera

During Polling	IP based web camera
	3 MegaPixel minimum
	night vision capability
	wide angle with 30/ 170 degrees coverage
	minimum illumination of .05 lux.
	support 16-4096 Kbps code rate
	support constant bit rate/variable frame rate of up to 30 fps
	Image Control: Backlight compression, Automatic white balance, 3D digital noise reduction.
	display should be supported is 1920 x1080.

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