

26 July 2021  
WJ/SMG/AB/PL/KA/ti

General Secretaries  
Participating Member Associations  
AFC Asian Qualifiers – Road to Qatar (Final Round)

Dear Sirs

AFC Asian Qualifiers – Road to Qatar (Final Round)  
Video Assistant Referees (VAR) Implementation – Requirements

With reference to the above and to our letter dated 17 June 2021 regarding the implementation of VAR system in the AFC Asian Qualifiers – Road to Qatar (Final Round) (the "Competition"), please find below the list of requirements to be furnished by each Host Organisation:

1. VAR Technical Requirements

Each Host Organisation shall prepare all items as stipulated in the enclosed VAR Technical Requirements for the Competition.

2. Technology Test

To ensure that the different elements of the VAR technology are implemented successfully at each stadium, the AFC is required to carry out the technology tests at all Competition Stadiums prior to implementation of the VAR system for the first time. However, if VAR has already been used at the stadium by the AFC, then a retest is not required.

The technology test shall be conducted one (1) day before Match Day (MD-1) at each Competition Stadium and the following minimum setup requirements and provisions are compulsory for the test:

- |                                       |   |   |
|---------------------------------------|---|---|
| a. Number of players                  | : | 5 |
| b. Number of on-field match officials | : | 4 |
| c. Walkie-Talkie                      | : | 4 |
| d. Giant Screen Control Room & Staff  | : | 1 |
| e. Ball and bibs                      | : |   |

### 3. Storage for VAR System Equipment

Each Host Organisation shall assist in securing a suitable and secure room/storage area for the VAR system equipment, which shall be made available for use throughout the Competition duration.

In addition to the above requirements and after assessment of each Competition Stadium, should additional items be required, the AFC shall inform each Host Organisation accordingly.

Furthermore, the AFC will be appointing the AFC VAR Information Officers (VIO) to lead the VAR implementation process at each Competition Stadium, along with the System Technology Provider (STP), to ensure a smooth and successful application of the VAR system.

In line with this, we would appreciate it if you could nominate one (1) representative from your Association/Federation to assist with the VAR system implementation matters such as stadium inspection visit prior to the first match day, as well as administrative and logistical support for the STP and the AFC VIOs, where necessary. This individual may be an existing VIO or someone within your Association/Federation who has a similar role; and we look forward to the submission of his/her name (via email at: [research.creatives@the-afc.com](mailto:research.creatives@the-afc.com)) by Monday, 2 August 2021.

Thank you for taking note and please do not hesitate to contact us via the above-mentioned email should you have any further queries.

Yours sincerely



DATO' WINDSOR JOHN  
General Secretary

Encl: VAR Technical Requirements

Copy to: FIFA



# VAR Technical Requirements

## AFC Asian Qualifiers – Road to Qatar (Final Round)

### Video Operation Room (VOR) Cabin or VOR Room

VOR to be located within the TV compound.

- Size 6 x 4.8 x 2.8m (Length x Width x Height; standard double width cabin)
- Within 40m of HB truck/cabin tailboard OR with available patch panel for TV ISO feeds

### Interior VOR

- 5 desks (suitable for monitor clamps)
- 7 ergonomic chairs
- 4 waste bins
- Dimmable lights / uplighters for lighting in during match operations
- Lockable and secure
- Air Conditioned – min 24,000BTU of cooling. Capable of keeping one 20U server rack cool and up to 6 people in the cabin.
- Hatch for cables.

### Power for VOR

- 21kVA technical power for competition duration
  - Requested socket: CEE32A/5p 3 phase or socket converter (If not 3 phase socket)
  - Distribution panel: BTP 32A IBC Panel to 6 x 16A-6h /220-250V 2P w/ ground
  - Minimum 7 domestic 220V sockets

### Internet

- Wired connection, minimum 50Mbps Upload and Download
- WiFi if available
- All UDP & TCP connection ports unblocked and unrestricted

### RRA & Audio

- STP will look to use local domestic fibre if available.
- 16A power at RRA position to be provided by LOC.
- AFC will look to utilise local domestic power if available.
- STP to provide Vokkero Elite audio solution. AFC may ask LOC to support the approval for the transmission frequency of the audio solution.

### Goal Line Cameras

- AFC to provide Goal Line Left & Right Ultramotion cameras.
- Cameras to be located at the back of the main broadcast stand (AFC will look to utilise existing broadcast positions if available). Cameras to be mounted on tripods.
- LOC to provide 2 x 220V power connections at the camera location.

### Giant Screen Feed

- AFC to provide a Giant Screen Feed which will inform of significant VAR checks & reviews.
- LOC to presented to Giant Screen operator as an SDI feed at tailboard of VOR Room as 1080i50, 1080p50, 1080i60 or 1080p60

### Offside Technology

- AFC to provide crosshair offside technology on three cameras (Main, 16m Left & 16m Right).
- LOC to ensure that all pitch lines are to be painted as per match conditions before offside pans.
- LOC to ensure that the pitch is also clear of any advertisement, groundskeeping machinery and personnel during the offside pans take place no later than 3-4 hours before kickoff.

### Personnel

- Football Technology (FT) accreditation and access to Stadia in the following areas:
  - Cable routes
  - Pitch
  - Pitch-side at Referee Review Area position
  - Outside broadcasting (OB) area
  - Referee dressing room (\*for referee audio communication system purposes only)
- Connecting walkways for all of the above

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