## 4.3 Maruzsi

Date: 11.11.2011

Stadium: Bozsik, Budapest, Hungary
Ball: Adidas, Jabulani, FIFA Approved

## **Results**

	criteria	value	No. of shots	Pass/fail	
Goal					
Indication					
	< 1s	<1 to 2s	-	Fail	
	Vibration	yes	-	Pass	
	Visual	yes	-	Pass	ioi
Range					iter
	full pitch		-	Pass	2 cr
Free shots (empty goal and near misses)					Phase 2 criterion
	100%	79%	85	Fail	Pha
Sled test					
	90% (-3/+3cm)	20%	15	Fail	
Impact wall					
	90% (-3/+5cm)	38%	100	Fail	
Free joker shots					
	100% (TBD)	74%	23		_
Free shots (outer net: side and on top)					Optional
	100% (TBD)	85%	20		pti
Free shots on goal keeper					O
	100% (TBD)	0%	10		
	•				
Total (side info	0)	56%	253	Fail	

Sled test (quasi static accuracy) 12.7 cm  $\pm$  9.7 cm

## **Comments**

- Several referee watches had a problem with the radio transmission.
- Sometimes the system recognised the ball only when it was rolling back out of the goal. This was the reason why the delay is sometimes around 2s.
- Between 2 and 3 o'clock the system had problems with the position of the sun, according to the system provider.

## System

Video based system with several cameras positioned on the post of the flood light system and on the stadium roof.

In comparison to the tests in February 2011, new referee watches were used





Figure 13: Indication device and one of the cameras of Maruzsi