Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no Phone: +47 94 83 33 26

10 km Egersund, Norway 02.March 2024

COURSE MEASUREMENT REPORT

- KEP	ORT FOR INTERNATION	UNAL CERTI	FIED COURSE -
INFORMATION AI	BOUT EVENT AND COURSE		
Event: Egersund	Half Marathon		
Technical Organi	ser: Egersund Idrettsklubb I	riidrettsavdelin	g
City/Place: Egers	sund, Norway		
Date of Arrangen	nent: 02.March 2024		
Date and time fo	r measurement: 31.Oct 202	23, 1 pm – final a	adjustment 06.Nov, 10:30 am
Measured distan	ce(s): 10 km (part of 21 km	race course)	
Length of calibra	tion course: 300,0 m		
Description of sta Description of fin Distance, in a stra Start and Finish r Km-markings: You Measurement dis	phalt Finish: Zero (same start/finiart: Espeland Hallen, outsides ish: Same as start aight line, between start & marked: Yes No marked: Yes start to the first	e, permanent m finish: Zero g point Opposite ru	
CONTACT INFORM	AATION		
CONTACT INFORM	Measured by:	Organiz	er:
Contact person:	Erling Hiorth		Kvassheim
Phone:	+47 91337338	+47 468	308961
Email:	Erling.hiorth@lyse.net		eim@gmail.com
international certi accordance with A	med that the course has bee fied course measurer from N NMS and Norwegian athletic	n measured by a Norwegian Athle s regulations, a	an A- or B certified etics. The course is measured in
10.november 2023	B Erling Hiorth		
Date Sign	nature by Course measurer	Date	Signature by AIMS

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CALIBRATION COURSE AND PROCEDURE		
Length of measuring tape (steel measuring tape only)	50 m	
Length of calibration course 1st measurement	300,00 m	
Length of calibration course 2nd measurement	300,01 m	
Possible 3rd measure (max. 1 cm diff per 100m 1 st and 2 nd)	No	
Average of measurements before adjustments	300,005 m	
Temperature (road or measuring tape)	5 degree	
Adjustment cf. D-(D*(1+(temp-20)*0,0000115)	- 0,052 m temp	
Measured calibration distance after adjustment	300,003 m (+5 cm on ground)	
Distance from start/finish to calibration distance	1,1 km	

CALIBRATION INFORMATION - (max 8 counts difference of 1000 m between 4 measurements, ie 2 counts of 300m and 3 count of 400m)						
	Pre-measurement:			Post measurement:		
	Date and Time: 31.Oct 13:20			Date and Time: 31.Oct 15:30		
	Start	End	Diff.	Start	End	Diff.
1st measure	11400	14861	3461	12600	16063	3463
2nd measure	14861	18323	3462	16063	19527	3464
3rd measure	18323	21786	3463	19527	22990	3463
4th measure	21786	25248	3462	22990	26454	3464

	Pre	Post	
	measurement	measurement	
Average (1+2+3+4) / 4	3462,0	3463,5	Today's constant. Either highest or average of before and after measurement
Constant 1 km	11539,875	11554,875	
Addn. +1‰	11,54	11,54	
Measurement constant (rounded)	11551,415	11556,42	11554

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MEASUREMENT PROCEDURE			
Measurement constant	11554		
Measured Distance	Counter	Description of place	
	50000	Start outside Espeland Hallen	
178,6	52063	Intermediate mark 1a – corner (see note 1)	
4.820,6	107760	5 km – turning point 10 km race	
	171016	Turning point 21 km	
	234300	5 km – turning point 10 km race	
4.815,8	289942	Intermediate mark 1b – corner	
181,7	292041	Finish – same as start (see note 1)	
9.996,7 m		Total measured without adjustments	
3,1	-178,6m+181,7m	Note 1 – Return, changed crossing over road	
-48	Steel tape	Turning point half way moved	
-48	Steel tape	Turning point half way moved (back and forth)	
50	Steel tape	Adjusted start line	
50	Steel tape	Adjusted finish line (back and forth)	
7,1 m		Total measured adjustments	
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CONCLUSION OF MEASUREMENT

- 1. General information about race course and start/finish
 - Main measurement 31.Oct. with reqd. adjustments 06.Nov.
 - The course has turning point half way and is part of the 21 km race
 - Number of participants in 2023 was 200 runners

2. Measurement of calibration course

- 1,1 km in straight line from start/finish, straight/flat cycle path on asphalt
- Measured in accordance with procedure, 2 persons
- Marked at both ends, adjusted for temperature and adjusted +5cm on ground

3. Calibration of bicycle

- Calibrated in accordance with procedure, 4 measures, devation 2 count ok

4. Measurement of the course

- Started from pre-set start to turning point 5 km half way, continued towards turning point for 21 km and passed 5 km turning point on return to start=finish
- Measurement of the course is sum of back and forth between 5 km and start

5. Post calibration of bicycle

- Same procedure, 4 measures, devation 1 count ok

6. Course adjustments

- Crossing of road 100 m after start, straight over to walking path, +3,1m x1
- Turning point 5 km adjusted by -48 m, reducing 96 m to the course
- Start/finish line adjusted by +50m, adding 100 m to the course

7. Overall length of the course

- The course is not shorter than 10.000 m

8. Additional info

- The organizer will set up fences 1st 150 m to walking path
- Pedestrian crossing to be used after 500 m
- Cycle path to be used 1st 3,1 km
- From 3,1 km to turning point at 5 km, the course is to follow left side of main road, same side of road both ways. Measurement is done 0,3 m from white side line / edge of road both ways.
- Guards and cones are to be placed at 3,1 km, 4,5 km and turning after 5 km to ensure no road crossing nor short cuts are taken.

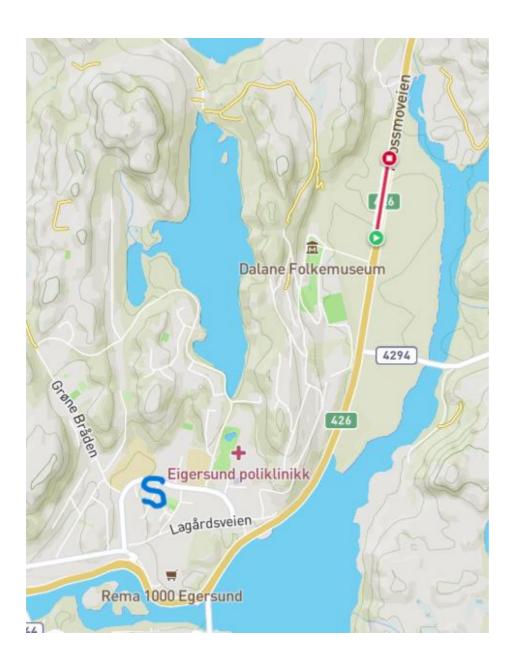
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CALIBRATION COURSE MAP



Ullevaal stadion

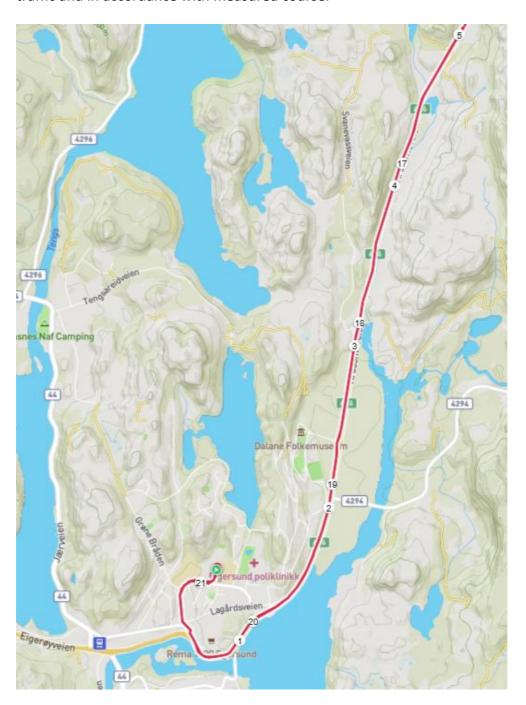
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COURSE MAP & DESCRIPTION

After 3,1 km on cycle path, all runners shall keep the left side of the road towards the turning point, and stay on the same side on return. This is for safety precausion due to open traffic and in accordance with measured course.



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Start / finish – marked on ground



Turning point 100 m from start/finish



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