

## COURSE MEASUREMENT REPORT

EVENT: **KOLAPUR HALF MARATHON**

LOCATION: **KOLAPUR INDIA**

RACE DATE **15 January 2023**

Measurement date: 18 August 2022

Race Organisation: **Lokmat Media Pvt Ltd**

Name & Address of  
race director **Sanjay Patil**

Tel: +91 9823144128

Email: [info@relaxzeal.com](mailto:info@relaxzeal.com)

Distance: **not less than 21.0975Km 10km, 5km, 3km**

Measurement method: **cook counter mounted on bicycle wheel**

Elevation, if not same, of: **START 562.9m FINISH 562.9m**

Distance, in a straight line, between start & finish: **0.0km**

### Description of the Course

- i) Terrain: **Circular route with out and back leg to make 10km and 21k distances**
- ii) Race surface: **tarmac or concrete roads, with long gentle inclines**
- iii) Course configuration: **3km, and 5km are out and back on Dual Carriageway. 10km and 21m are a lap with a out and back leg with different U turns. 21km is run as 2 laps. .**

### Measurement Details

- i) Section of road available: **These 3km and 5km are out and back routes with half the road width available to runners in each direction. The 10km and 21km are lap races (1 lap 10km 2 lap 21km) and have full width of one side of the dual carriageway except in the out and back leg to hospital. The race director is aware of the need to place marshals and markers (cones) in the centre of each available road area to split for the out and back runners in 3km and 5km – plus the leg for the 10km and 21km runners.**
- ii) Line to be taken at turns: **shortest possible route within limits noted above**

Measured by: **Norrie Williamson** – Date: **16-08-2022**

**M.I.C.E., M.I.Struct.E., Pr.Eng.**

**World Athletics / AIMS Measurer A Grade**

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**Local Measurer: Anirudha Athani - +91 9822069872**

## **KOLAPUR HALF MARATHON**

The route was measured in sections based on traffic issues over night. The first section was from the A point of calibration with traffic up to the University. The second section was around the University as this was quiet and also the gates become closed later in the night.

The third section was from university up to the estimated 21km turn point and back to the university in and out gates.

This was a traffic risk area but did go well but was measured on the shortest possible lines. This continued against traffic to the point of cross over for the out and back section and then into the Police Ground finish.

This was measured to the point on the field at the grandstand but the photo was taken in very early morning so location by GPS and explanation is included in the photo.

The final section of the measurement was from start/ finish line to the Calibration B and then A which also confirmed the stability of the measurement.

A request was made for a daylight photo of the start/ finish location from the organisers but this has not been received and so the night photo has been provided showing that it aligns with the steps in the grandstand.

The post calibrations were completed and the adjustments to the distances made the following morning in daylight.

*The 3km and the 5km are determined by the opportunity to use gaps in the central reserve and are FUN RUNS and so not accurate distances but were adjusted and are shown here for detail purposes only. NOT for Certification:*

### **DESCRIPTION OF THE ROUTE:**

- a. Start line for all distance categories is located inside Shahid Ashok Kamte Football Police Ground athletic track in front of the main stand.
- b. After flag-off, all the runners will come out of the gate of the sports complex and take left turn towards Dhairyaprasad chowk on the left carriageway (running with the traffic)
- c. At Dhairyaprasad chowk all runners take left turn on Indumati Road, remaining on the left carriageway (running with the traffic).
- d. 3 km Runners take u-turn at the Circuit House and return to Dhairyaprasad Chowk on the opposite carriageway (running with the traffic). 5k, 10k & 21k runners continue running on Indumati Road and take U-turn at Padawale Chowk and return to Dhairyaprasad Chowk on the opposite carriageway (running with the traffic)
- e. 3 km & 5 km runners take right turn at Dhairyaprasad chowk and return to the start/finish point (now running against the traffic)
- f. 10km & HM runners take left turn at Dhairyaprasad Chowk towards Tararani chowk and on to the 10k u-turn point on the left carriageway. (running with the traffic)
- g. 10 km runners take U-turn after crossing the flyover ahead of BSNL tower and return to Dhairyaprasad chowk on the same carriageway (running against the traffic)
- h. Half-Marathon runners run past the 10k U-turn on the same carriageway, past University gates and take the final U-turn before Shahu Toll-Naka (running with the traffic)
- i. After taking the U-turn, Half-Marathon runners return to university entry gate on the same carriageway (now running against the traffic), enter into Shivaji university through Gate No.1 and complete the loop inside the University and come out of Gate No.2.

- j. Half-Marathon runners come out of university gate No.2 and cross the road to the opposite carriageway, turning left towards Dhairyaprasad Chowk (against the traffic)
- k. At Dhairyaprasad chowk, the 10k & HM runners will change to the left carriageway towards SP chowk (running with the traffic), take U-turn at the end of the road divider at SP chowk (not run around the circle), onto the opposite carriageway (with traffic) towards the Football ground gate.
- l. 10k & HM runners turn left into sports complex through the Football ground gate and finish their run on the Athletic track in front of the stand (Finish line same as start line )

#### Calculations:

Kolhapur Half Marathon race: 15 January 2023 - Measured 18 August 2022							
ride A	Ride B	Difference		ride A	Ride B		Difference
8493	11845.5	3352.5		58500	61854		3354
11845.5	15197	3351.5		61854	65205.5		3351.5
15197	18551	3354		65205.5	68557.5		3352
18551	21902	3351		68557.5	71911		3353.5
	average	3352.25			average		3352.75
	per km	11185.3			per km		11187.0092
		day constant	11186.2				

start at calibration through to pedestrian Crossing at University entrance				
Point	Reading	split	description	cumulative
calibration A	21907			0
1.5k turn	26616	0.421		0.421
end of central divide for 1.5k turn	26672	0.005		0.426
10k turn	55348	2.564		2.989
ped X university IN	81518.5	2.340		5.329

University circuit pedestrain crossing in to pedestrain crossing out (university Lap)				
Point	Reading	split	description	cumulative
ped University in	81518.5			
gate	81798	0.025		0.025
gate out	122797.5	3.665		3.690
Cycle out another gate and restart from outside				
gate outside	24571.5			3.690
ped X out	24859.5	0.026		3.716

<b>Restart Pedestrian Crossing In to South Turn point and return to finish</b>				
<b>Point</b>	<b>Reading</b>	<b>split</b>	<b>description</b>	<b>cumulative</b>
ped X in going on main road	25768			0
Top turn piont	41409	1.398		1.398
ped x In way back	57045.5	1.398		2.796
ped X out way back	57869	0.074		2.870
10k mark	83253.5	2.269		5.139
ped x at change over	108274.5	2.237		7.376
U turn at flag	121418	1.175		8.551
Gate at ground	125432	0.359		8.910
finish point	127438	0.179		9.089

<b>Start point to calibration A point</b>				
<b>Point</b>	<b>Reading</b>	<b>split</b>	<b>description</b>	<b>cumulative</b>
start Point	27438			0
gate way out	29426	0.178		0.178
end of central reserve at 1.5k turn	41935.5	1.1183		1.296
1.5k turn	41991.5	0.0050		1.301
2.5k	54256.5	1.096		2.397
calibration B	58500	0.379		2.777
calibrationA	61854	0.300		3.077

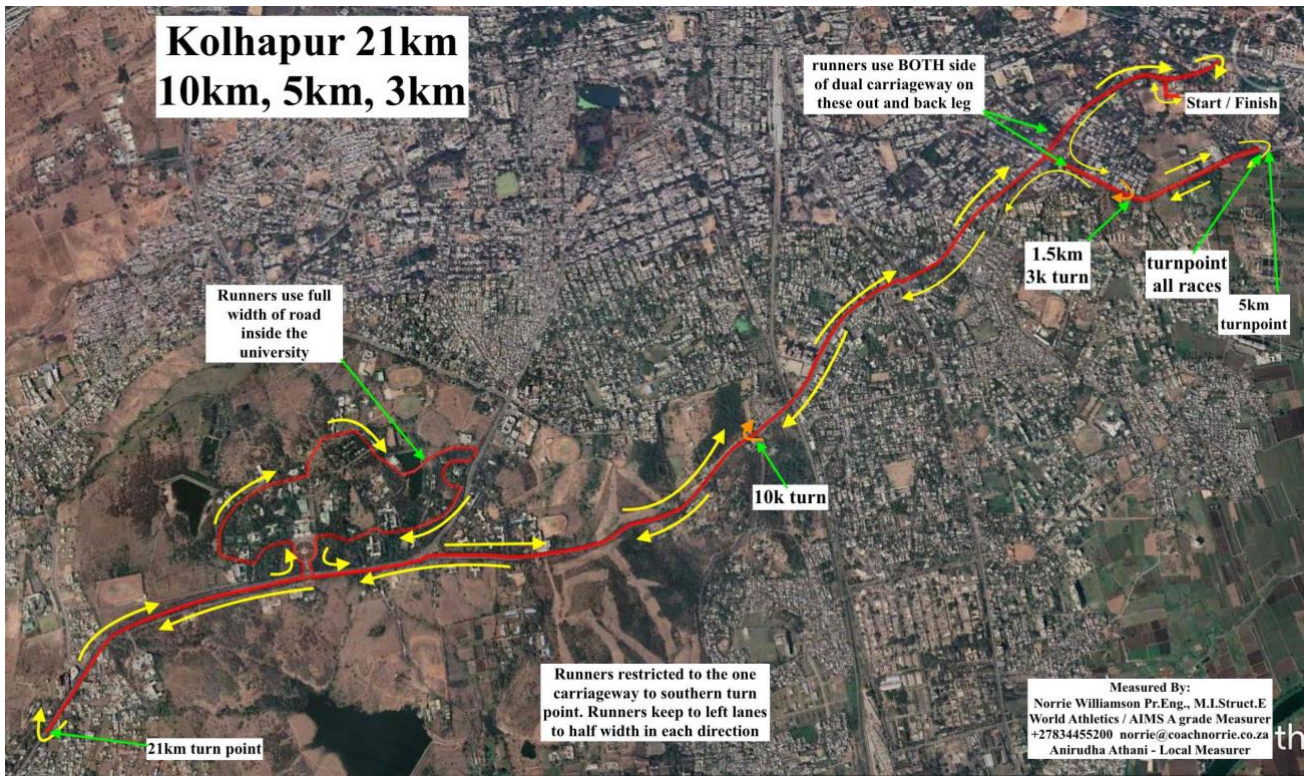
<b>road width at end first loop for return of 3k and</b>	
road width at end first loop for return of 3k and 5k races	0.008

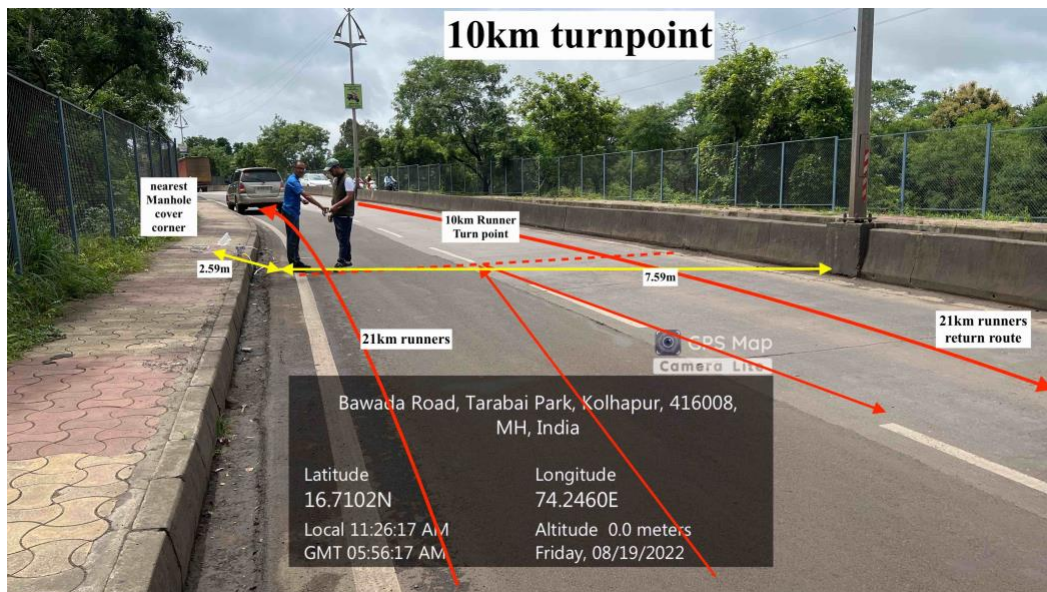
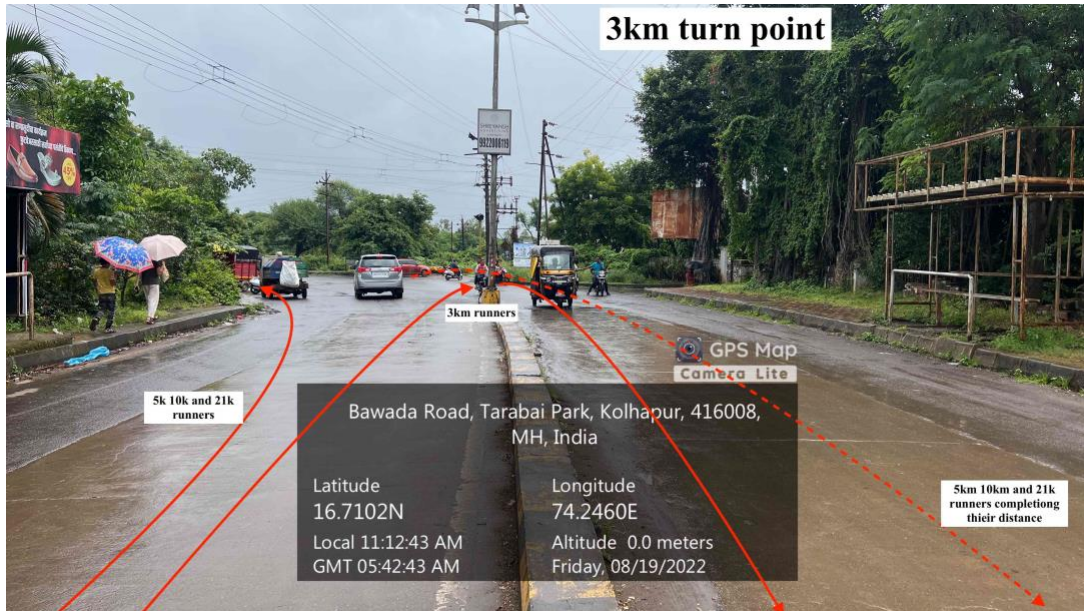
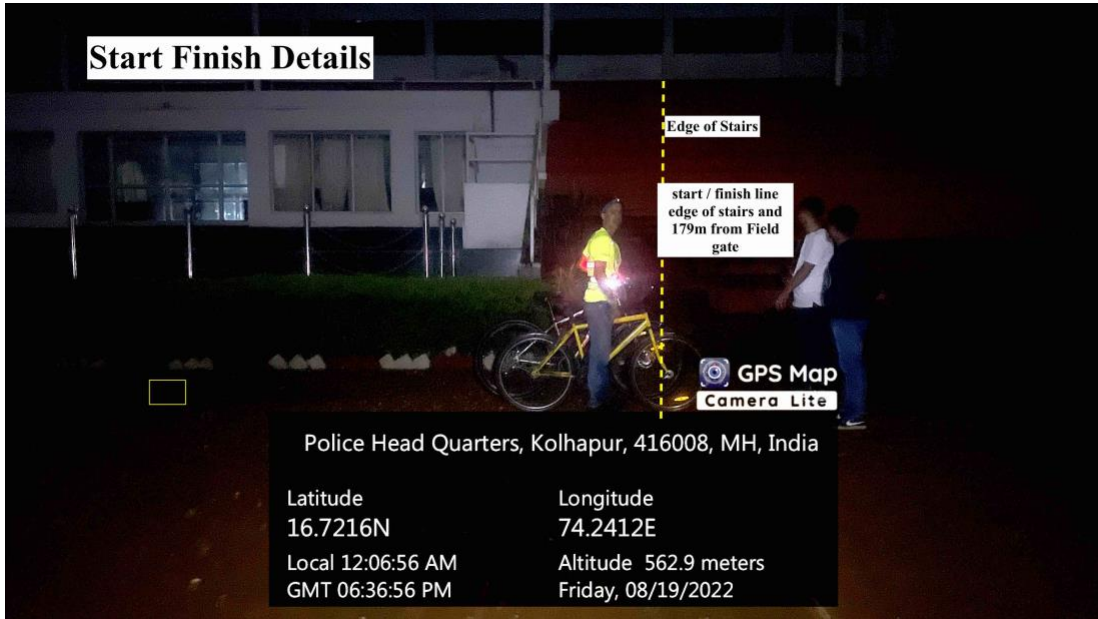
<b>Calculate 21km</b>	
Calibration to university	5.329
Pex X in to turn top and	2.796
Ped x in around university ped X out	3.716
ped x out to finish	6.219
start to Calib A	3.077
<b>Total Distance</b>	<b>21.137</b>
<b>Long by</b>	<b>0.039</b>

Calculate 10km	
Start to Calibration A	3.077
calibration A to 10km MH	2.989
10km (way back to	3.950
<b>Total 10km</b>	<b>10.016</b>
Calculate 5km Fun Run	
distance start to turn at end first loop	2.397
First loop turn back to	2.397
Width of road at end of	0.0080
<b>Total</b>	<b>4.803</b>
There fore extra at finish	0.197
Calculate 3km Fun Run	
start to 1.5k turn	1.301
road width at end first	0.0080
return 1.5k turn to finish	1.301
<b>total measured distance</b>	<b>2.610</b>
short by	0.390
added each way	0.3814
<b>final distance</b>	<b>2.991</b>

**NOTE: the 3km and 5km distances relate to turn points in central reserve and so are NOT accurate but are FUN RUNS and will not be certified but as provided for correct distance:**

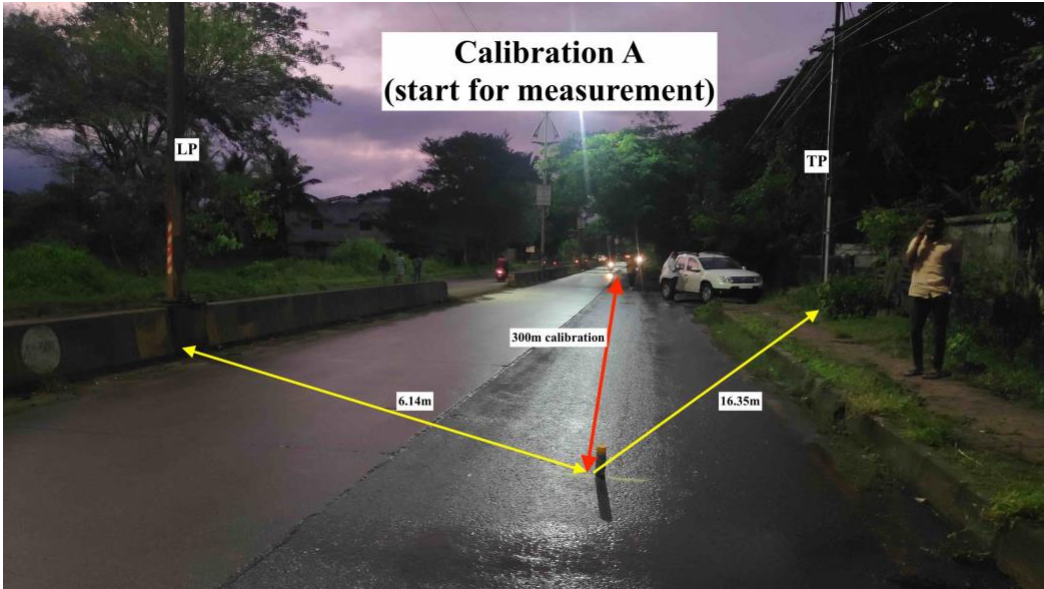
Photographs of route:







**Calibration photos**



This report reflects the details of the Kolapur Half Marathon.

Measured by: *Norrie Williamson* - Date: *18-08-2022*

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