

e-Yantra Robotics Competition (eYRC 2019-20)

Updated Rulebook

The information provided in this document should be followed as part of the Rulebook, which most of you are aware of. Fig. 1 shows the scoring zones for a **City** having an **Aid**. If the aid lands anywhere other than the respective city scoring zone, then that particular city aid will not be considered for scoring.

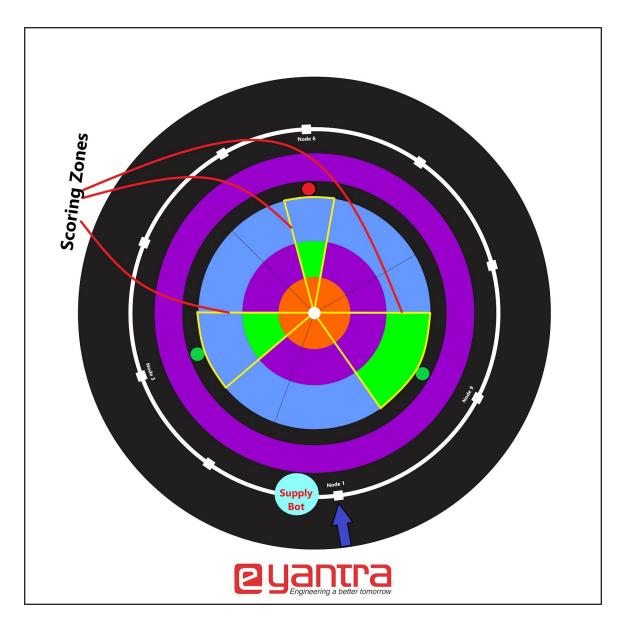


Fig.1: Key elements for scoring



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Robotics Competition

Judging and Scoring

Total Score = (TT - RT) + (NH*100) + (CD*30) - (P*40) + (CB * 75) + B

Where -

TT = Total Time for Run (480 seconds)

RT = Total Run Time taken by Supply Bot (in seconds)

NH = Number of Relief Aids dispatched (coins hit correctly) - this is awarded when the coin lands in any of the **Village (purple/orange/white region)** which indicates dispatch except the **Dead Zones** and **Lake** as it will sink in these regions.

The NH will be counted as valid only if the Relief Aid reaches the Villages of its respective City Node's Sector.

CD = Correct Detection of City (Nodes where the coins are placed)

P = Penalty incurred (maximum of 5 and a minimum of 0).

CB = Relief Aid correctly deposited Bonus (maximum 4 and minimum 0) - 2 CBs will be awarded on dispatching the (Red coin) Medical Aid first and being able to place it within the innermost Village (White circle). A single CB will be awarded for (Green coins) Food supplies each.

Note: If the (Red Coin) Medical Aid is dispatched at any point later than the first dispatch, a single CB alone will be awarded for this dispatch and the Medical Aid will have considered the same as Food Supply (Green coin).

B = Run Bonus (if no penalty has occurred at all). This is an overall Run Bonus. **The value** of this Bonus is 200 points.

Some Notes specifying **IMPORTANT** detailed instructions, in the finals:

- 1. The minimum Sector angle will be 30 degrees. However, the number of nodes will still remain a total of 9.
- 2. The Dead Zones will be placed at locations different from those placed now.
- 3. The Capital will never have any Relief Aid.

However, the layers of concentric circles will not change.

The dimensions of the arena and it's elements like diameter and thickness of rings will not change.

Good Luck!!!

