**Skysparks**

# Abstract

**Please note that only the shortlisted teams will be eligible to participate, hence fill the abstract with utmost sincerity.**

**Guidelines for abstract:**

1. Kindly keep your explanations short and to the point. (max. word limit: 400 words)
2. Kindly make sure that the explanations are only typed in CALIBRI font with SIZE 12.
3. Filled abstract must be submitted through the dashboard of the team leader only, after registration on the website.
4. Filled abstract must not exceed the file size of 3 MB on the website.

**Note: Techkriti will not be responsible for any email bounces. We will be sending you a confirmation mail as soon as we get your abstract.**

Fill in the following details:

**TEAM NAME:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No. | Team Member | College | Email | Contact Number | TECH ID |
| 1 | Ashish Kumar | NIT Hamirpur H.P. | 22bee037@nith.ac.in | 8630896604 | 2401177 |
| 2 | Akhil Sharma | NIT Hamirpur H.P. |  |  |  |
| 3 | Namish Gupta | NIT Hamirpur H.P. | 23bec065@nith.ac.in | 9317905502 | 2401703 |
| 4 | Shubham Atri | NIT Hamirpur H.P. | 23bec096@nith.ac.in | 8894422593 | 2401701 |

**Team Leader’s Name:**

**Team Leader’s Contact Number:**

## Model Details

**Plane Configuration:**

Wingspan: 72cm (28.1 inch)

Dimensions: Length : 101cm (39.7 inch)

Other Details:

**Transmitter Details:**

Company: FLYSKY (FSI6)

Frequency: 2.4GHz

Channels: 6

**Details of all electronic components used in the plane:**

Motor: RS2205 2300 KV/CW

Battery: 2200mAH 3S LiPo

Esc: 30A

Other details: Receiver Used : FSIA6B

**Details of construction materials used for making plane structure:**

We used Dapron sheets ( 5mm Thickness ) , carbon tubes , 3d printed material , metal rods , tyres ,etc…

**Level of expertise giving details about any other RC flying competition (if any) that you have participated in:**

**Innovation in the model including the mechanism details:**

Our plane is capable of safe landing without using the runway (We are using the hybrid landing mechansim consist of hybrid mechanism of vertical and traditional landing system ) . It also have new aerodynamics advancements , Its payload section is designed and placed in such a way that it helps in the effective lift of the plane . Our innovation includes advancement in landing system , overall plane stability , and aerodynamics advancemenst in payload section .

**Use of your model or the mechanism in the real world:**

Our model proves invaluable in scenarios characterized by limited runway availability, particularly in emergency landing Our model proves invaluable in scenarios characterized by limited runway availability, particularly in emergency landing situations, such as those encountered in defense sectors. Additionally, its applications extend to the agriculture sector, ushering in a revolutionary approach. In the aviation industry, our model stands out for its exceptional landing capabilities and cutting-edge advancements in aerodynamics, promising transformative outcomes for the entire airways sector.

**Any other information you would like to share:**

**YouTube link showcasing your flying skills. Providing this is mandatory. The video should show the flyer as well:**

https://youtu.be/SP4\_c7sQHPw

**NOTE:** All these details must be accompanied by snapshots of the plane, clearly depicting its essential components. A maximum of 5 pictures are allowed. It is mandatory to fill in the details in the given space.