



Indian Council of Agricultural Research- National Agricultural Higher Education Project & Agricultural Engineering Division of ICAR



KRITAGYA

**A National level Agtech Hackathon
“Promoting Innovation in Farm Mechanization”**

कृतज्ञः कृषि तकनीक ज्ञान

Registration Guidelines



**Registrations starts from
15th September 2020**



Brief

KRI-TA-GYA explains, KRI for Krishi (Agriculture), TA for Taknik (Technology) and GYA for Gyan (Knowledge). This event will give an opportunity to the students / faculties / entrepreneurs / innovators and others to showcase their innovative approaches & technology solutions to promote farm mechanization (FM) in India. Such initiatives under NAHEP along with Agricultural Engineering, Division of ICAR will also help in enhancing the learning capabilities, innovations and disruptive solutions, employability and entrepreneurial drive in FM sector, and hence will boost the Mechanisation level in country.



Eligibility for participation

Students / faculties / innovators from any university / technical institution across the country. Participating students can collaborate with local start-ups, students from technology institutes including IITs and NITs etc. but group size must not exceed of 4 members.



Theme

Provide a platform to showcase and recognize an innovative and disruptive farm mechanization solution preferably to promote 'Women Friendly Farm Machinery & Equipment'.



Event Framework

A two tier event framework will be followed during the event. In tier two i. e. 'Screening Round', after the registration, applicants will be screened out and called for technical presentation from the respective zones. Followed by tier two, in tier one i.e. 'National Round', where top 10 Zonal level winners will be called for Grand Finale to showcase their solution.



Presentation - During Registration

Please provide the concept note (PPT Presentation- Not more than 10 Slides- Should showcase Problem Statement, Solution Concept, Team, Background, Value Proposition and Way forward). Presentation to be prepared in PPT format and to be uploaded in PDF version.



Presentation - During Screening Round and National Round

Applicants will make the technical presentation on the solution, and may incorporate agricultural engineering drawings and animated videos. In addition to the technical aspects, the solution must be commercially feasible and the same needs to be represented in the form of 'Business Model Canvas' (BMC).



Problem Statement

(Group can select only one problem statement)

#	Problem Statement
01	Women friendly equipment for small farm operations
02	Automatic transplanter / seeder for wetland paddy
03	On-the-go measurement of soil qualities and precision application of fertilizers
04	Solar / Hybrid powered tractors / prime movers for farm cultivation operations
05	Automatic weeders for row crops
06	Robotic harvesting of coconut / oil palm
07	Selective harvesting of physiologically matured tree fruits
08	Automatic vegetable transplanter
09	Harvesting of vegetables in multiple picking
10	Cotton picking for Indian conditions
11	Real time detection of plant diseases and simultaneous site-specific application of pesticides
12	Device for contact less determination of biotic stresses to crops
13	Yield determination without crop cutting or crop harvesting
14	Crop residue handling, storage and management



Awards

Winners from the national level event, will be felicitated with cash prize and citations with participation certificate. Cash Prize will be INR 5 lakhs for 1st winner, 3 lakhs for 2nd and 1 lakh for 3rd winner.



Rounds of event

1. Registration and Concept entries
2. Uploading Concept Note by applicants
3. Zone level screening
4. Zone level evaluation (Technical Presentation by applicant)
5. Mentor allotment to zone level winners
6. National level finale (Final Presentation)
7. Award/ Announcement of Results



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Indian Council of Agricultural Research,
Krishi Anusandhan Bhawan II, Pusa Campus, New Delhi (India)

Email: kritagya@icar.gov.in

<https://nahep.icar.gov.in/>