



भारतीय कृषि सांख्यिकी अनुसंधान संस्थान  
(भारतीय कृषि अनुसंधान परिषद्)  
लाइब्रेरी एवेन्यू, पूसा, नई दिल्ली-110 012



## ICAR-Indian Agricultural Statistical Research Institute

**Dr. Ajit**, *Principal Scientist & In-Charge-ITMU*

**Dr. Upendra Pradhan**, *Scientist & Member-ITMU*

**Dr. Rajendra Prasad**, *Director, ICAR-Indian Agricultural Statistical Research Institute.*





भारतीय कृषि सांख्यिकी अनुसंधान संस्थान  
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लाइब्रेरी एवेन्यू, पूसा, नई दिल्ली-110 012



## Institute Technology Management Committee (ITMC)

Date of Constitution June-2021

Chairman	<b>Dr. Rajender Parsad, Director, ICAR-IASRI</b> , Pusa Avenue, New Delhi-12
Members	<b>Dr. Shiv Kumar, Principal Scientist, ICAR-NAIP</b> , New Delhi <b>Dr. Taqueer Ahmad, Principal Scientist</b> , ICAR-IASRI, New Delhi <b>Dr. Mukesh, Principal Scientist&amp; In-Charge-IT-Unit</b> , ICAR-IASRI, New Delhi
Member-Secretary	<b>Dr. Ajit, Head-A (SG)&amp; In-Charge-PME</b> , ICAR-IASRI, New Delhi

Item	2018-19	2019-20	2020-21	2021-22	2022-23	Total
No. of ITMCs meetings conducted	1	1	1	1	1	05



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### Conducting IP awareness/capacity building program

Item	2018-19	2019-20	2020-21	2021-22	2022-23	Total
No. of entrepreneurs/ startups	0	0	0	0	0	0
No. of programs for Scientific/technical staff	0	0	0	0	0	0
No. of programs for farmers	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0

### Professional Service Functions: Training/Consultancy/Contract research/ Contract Services

Item	2018-19	2019-20	2020-21	2021-22	2022-23	Total
No. of Training	3	6	3	2	2	16
No. of Consultancy	3	5	2	1	0	11
No. of Contract research	2	0	0	1	0	3
No. of Contract service	0	0	0	0	0	0
Revenue generated	16,44,736	20,53,738	4,77,662	5,42,974	3,66,854	50,85,964



भारतीय कृषि सांख्यिकी अनुसंधान संस्थान  
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## IP portfolio Management

Item in No	2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		Total	
	Filed	Granted	Filed	Granted	Filed	Granted	Filed	Granted	Filed	Granted	Filed	Granted	Filed	Granted
Patents filed/granted	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plant Varieties in PPVFRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copy rights	13	12	04	17	06	05	15	04	16	04	00	06	54	46
Trademark	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-
logo	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	13	12	04	17	06	05	15	04	16	04	00	06	54	46





# भारतीय कृषि सांख्यिकी अनुसंधान संस्थान (भारतीय कृषि अनुसंधान परिषद्) लाइब्रेरी एवेन्यू, पूसा, नई दिल्ली-110 012

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## BrassicaSatDb

### Brassica Microsatellite Database

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Molecular markers play a significant role for crop improvement in desirable characteristics, such as resistance to disease, high growth rate and other characteristics that will benefit the plant and variety in long term.

Microsatellites, also known as simple sequence repeats (SSRs) or simple tandem repeats (STRs), have extensively been exploited as molecular markers for diverse applications including genome characterization and mapping. Recently, their role in gene regulation and genome evolution has also been discussed widely. We have developed **BrassicaSatDb** (Brassica Microsatellite Database ), a web based relational database of microsatellites present in the whole genome sequence. BrassicaSatDb allows microsatellite search using multiple parameters like microsatellite type simple and compound, repeat type (mono- to hexa-nucleotide), copy number, microsatellite length, pattern of the repeat motif itself and the location of the marker on the chromosome. Microsatellites can be retrieved by specifying the chromosome number (or numbers). The database also searches the specified number of markers in a provided location range on a particular chromosome. The nucleotide sequences of the particular marker are also provided to facilitate primer designing for PCR amplification of any desired microsatellite.

BrassicaSatDb is available at <http://cabindb.iiasri.res.in/brassica/>

**BrassicaSatDb** also fulfils this customized search according to the requirement of researcher, on ranges of GC content, base pair and copy number. This database has been further appended with Primer3 for primer designing of the selected markers with left and right flankings of size upto 500 base pairs, which will enable researcher to select markers of choice at desired interval over the chromosome. A novel add-on for degenerate bases has been incorporated in this database search, where the users are given flexibility to replace degenerate bases with any of the alternative base (A,T,G,C). This feature has been added to resolve the issue of some of the degenerate bases present in current genome assembly making the primer designing very difficult otherwise.



## Small Cardamom Transcriptome Database

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### SmCarTDB (small cardamom transcriptome database)

Small cardamom universally referred to as the 'Queen of Spices' is the dried fruit capsule of *Elettaria cardamomum* Maton, and is one of the conflict agri-germplasm with the global market price almost more than 30 times of rice and wheat which still needs to be studied for more genomic information. The total export of small cardamom in the year 2015-16 was 5500 tonnes worth Rs 44982 lakhs. India is reported to have a rich genetic diversity in cardamom. Since the whole genome sequence of small cardamom is still not available, there is need for quick marker discovery. Genic region SSRs, SNPs and InDels have been a good source of FDM. The literature show that small cardamom markers are limited, transferability is poor and polymorphism is compromised, leading to requirement of more markers for variety identification, diversity analysis and polymorphism detection.

The present database, **SmCarTDB** (small cardamom transcriptome database) houses the exhaustive markers, mRNAs, transcription factors and pathways from the transcriptome profiling of small cardamom associated with capsule rot (Akhulal disease) which is one of the most serious fungal diseases in cardamom caused by *Phytophthora meadii* MC Rae of A2 mating type. Discovery of candidate genes associated this disease is catalogued in this database. This is the first web genomic resource in public domain having 44 thousand genic region putative SSR markers, 41195 SNPs and 4321 InDel markers. Functional domains were also analysed and bHLH and NAC family TFs were found to be abundant. A total of 1492 unique miRNA targets were predicted for all DEGs, of which miR172, miR2185, miR396, miR5021, miR156, miR169, miR395 are most abundant.

Cardamom is an international commodity in the form of spice, condiment and medicine. It needs the intellectual property rights and trade marketing. Additionally, variety identification and trait improvement are the major concerns. Adulteration and variety verification by DUS test are the major issues in management of the germplasm especially in transboundary movement or exchange of germplasm. This information of potential molecular markers and sequence information would be highly beneficial for cardamom breeding programs.

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## Online Generation of Incomplete Block Design

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Incomplete block designs are widely used in comparative experiments. An incomplete block design is an arrangement of  $t$  treatments in  $b$  blocks such that each block is incomplete, i.e., at least one treatment is missing in each block. This facility generates an incomplete block design for given  $v$  treatments,  $b$  blocks of size  $k$ . The designs are such that they have high A-efficiency and D-efficiency. The designs are produced following the algorithm of Mandal et al (2014). An R package *ibd* (see, Mandal (2014)) is also available for this purpose. The facility can be used to generate incomplete block designs up to 30 treatments and up to block size 10.

Mandal, B. N., Gupta, V. K., and Parash, R. (2014). Efficient incomplete block designs through linear integer programming. *American Journal of Mathematical and Management Sciences*, 33(2):110-124.

Mandal, B. N. (2014). *ibd*: INCOMPLETE BLOCK DESIGNS R package version 1.2. <https://cran.r-project.org/web/packages/ibd/index.html>



## Online Generation of Orthogonal and Nested Orthogonal Latin Hypercube Designs

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Latin hypercube designs (LHDs) in which the columns are mutually orthogonal are called orthogonal Latin hypercube designs (OLHD) and are known as  $OLH_2(n, m)$  with  $m$  factors and  $n$  runs. A  $OLH_2(n, m)$  designs ensure independence of estimates of linear effects when a first order model is fitted. However, if a second-order model is needed, then it is desirable that the LHDs satisfies condition of first order OLH and additionally, the condition that the element-wise square of each column with any other column and the element-wise product of every two columns are orthogonal to all columns in the design. Such LHDs will be denoted by  $OLH_2(n, m)$ . A  $OLH_2(n, m)$  design ensures that not only the estimates of linear effects are mutually uncorrelated but they are also uncorrelated with the estimates of quadratic and interaction effects in a second order model. A method of construction has been developed so as to construct  $OLH_2(n, m)$  and  $OLH_2(n, m)$  for  $2 \leq m \leq 6$  and any permissible runs.

Latin hypercube designs are popular and widely used space-filling designs(SFD). Choice of a good Latin hypercube closely depends upon two criteria from which one is space-filling criterion and another is orthogonality criterion. Space-filling criterion provides maximum coverage to the whole design space and orthogonality criterion helps to estimate linear as well as higher order polynomial effects independently. To determine a Latin hypercube design with respect to space-filling property, three criterion like entropy criterion,  $Q_p$  criterion and central  $L_2$  discrepancy criterion will be used. To obtain orthogonal/nearly orthogonal Latin hypercube designs, firstly orthogonal Latin hypercube designs will be obtained from the construction methods of  $OLH_2(n, m)$  and  $OLH_2(n, m)$  then runs factors will be modified in such a way that the space filling criteria values are improved with minimum loss of orthogonality. The implementation of such a method may involve computer aided search for the purpose.  $OLH_2(n, m)$  designs with good space filling property obtainable from these methods of construction would be catalogued for number of columns ( $m \leq 6$ ) and number of runs ( $n \leq 20$ ).

A Latin hypercube design  $L_1$  is said to be nested with  $p \geq 2$  layers when it contains a smaller Latin hypercube design  $L_2$  as a subset,  $L_2$  contains a smaller Latin hypercube design  $L_3$  as a subset and so on till  $L_{p-1}$  contains a smaller Latin hypercube design  $L_p$  as a subset. In this study, two general methods of constructing nested orthogonal Latin hypercube designs  $NOLH_2(n_1, n_2, \dots, n_p, m)$  have been developed. The methods give many new nested orthogonal Latin hypercube designs with fewer number of runs as compared to existing nested orthogonal Latin hypercube designs. A catalogue of  $NOLH_2(n_1, n_2, \dots, n_p, m)$  designs obtainable from these methods of construction would be prepared and can be get for  $p$  layers with permissible number of runs and up to 6 factors.

This application mainly concern with construction of orthogonal Latin hypercube designs, nested orthogonal Latin hypercube designs and orthogonal or nearly orthogonal Latin hypercube designs with good space filling property and preparing their catalogues. Four different modules viz. (i) 1<sup>st</sup> order OLH design, (ii) 2<sup>nd</sup> order OLH design, (iii) Nested OLH design and (iv) OLH design with good space filling property.

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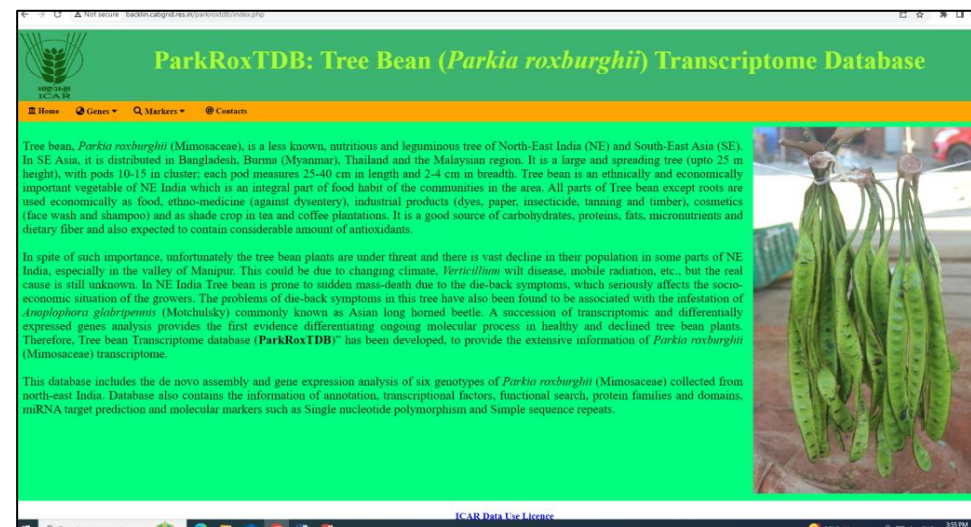
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BuffGR

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**Introduction**

BuffGR is a first comprehensive web genomic resource of buffalo that catalogues 602881 SNPs and 613403 InDels extracted from the set of 31 buffalo tissues while collectively a total of 7727122 SNPs and 634124 InDels were distributed in Murrah, Bangladesh, Jaffarabadi and Egyptian breeds with reference to Mediterranean breed. It also houses 45046/91 SSR markers from all the breeds along with 1458 circRNAs, 37712 lncRNAs and 938 mRNAs. This comprehensive web-resource can widely used by the buffalo community across the globe in studies involving marker trait association, genetic diversity, as biomarker in adulterity and breed traceability, in various diseases and other stress conditions. This resource can also be useful in buffalo improvement programs and disease/breed management.

Visitors: ●●●●●●●

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**RNA/Transcripts**  
Various non-coding RNAs are included from different tissues of buffalo in this web-resource, which include circRNAs (circular), miRNAs (micro) and lncRNAs (long non-coding).

**Molecular Markers**  
Molecular markers as SNP (single nucleotide polymorphism) along with INDELS (insertion and deletions) and SSR (microsatellite) markers are included in this web resource along with their distribution in various tissues and breeds of buffalo.

Incomplete Split Plot Designs: Construction and Analysis

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split-plot designs are widely used in agricultural experiments. In traditional complete split plot designs, the whole plot treatments are applied in randomized block designs where each block contains each of the whole plot treatments and within each whole plot, all of the subplot treatments are applied. However, in certain situations, it may not be possible to accommodate each whole plot treatments within a block and / or each subplot treatment within a whole plot. Such types of experimental designs are called as incomplete split-plot designs. This web service gives facility to construct an incomplete split plot designs for three situations namely (i) when blocks are complete with respect to whole plot treatments and whole plots are incomplete with respect to subplot treatments, (ii) when blocks are incomplete with respect to whole plot treatments and whole plots are complete with respect to subplot treatments and (iii) when blocks are incomplete with respect to whole plot treatments and whole plots are incomplete with respect to subplot treatments. There is also facility to analyse data from experiments conducted using each of the above three types of incomplete split plot designs.



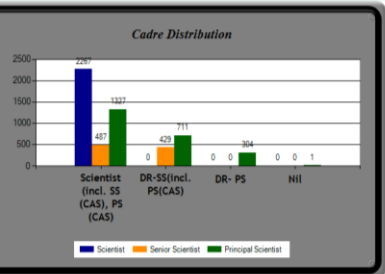
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**Cadre Distribution**



Cadre	Count
Scientist (incl. SS (CAS), PS (CAS))	2267
DR-SS (incl. PS (CAS))	1337
DR-PS	711
NIL	304

Legend: Scientist (incl. SS (CAS), PS (CAS)), Senior Scientist, Principal Scientist

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**Technology licensing/commercialization through AgrInnovate India Ltd.**

Item	2018-19	2019-20	2020-21	2021-22	2022-23	Total
No. of technology licensed	NIL	NIL	NIL	NIL	NIL	NIL
No. of licensee	NIL	NIL	NIL	NIL	NIL	NIL
Revenue generated	NIL	NIL	NIL	NIL	NIL	NIL

**Technology licensing/commercialization by ITMU/ZTMC**

Item	2018-19	2019-20	2020-21	2021-22	2022-23	Total
No. of technology licensed	1	2	2	5	5	15
No. of licensee	5	14	6	11	7	43
Revenue generated	12,000	21,000	13,200	17,300	9,000	72,500



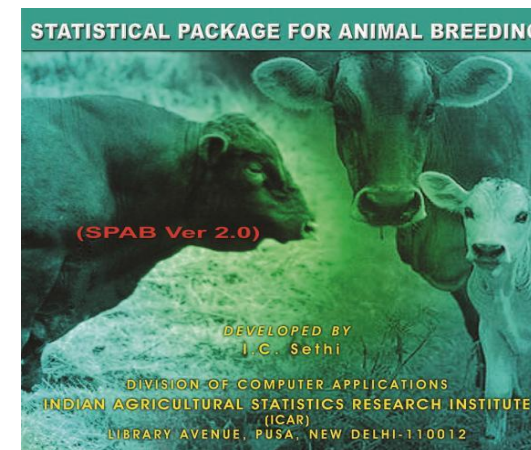
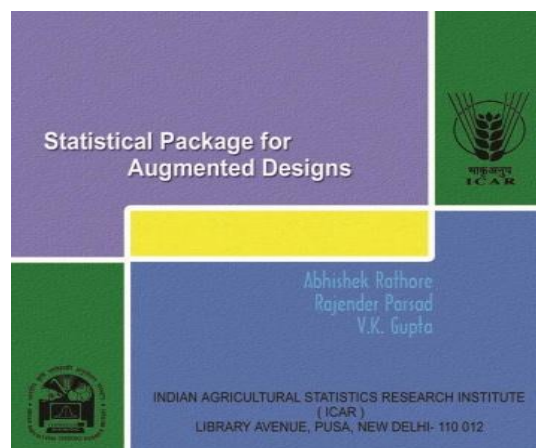
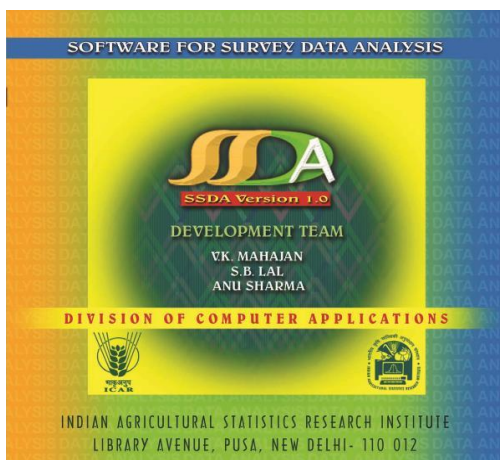
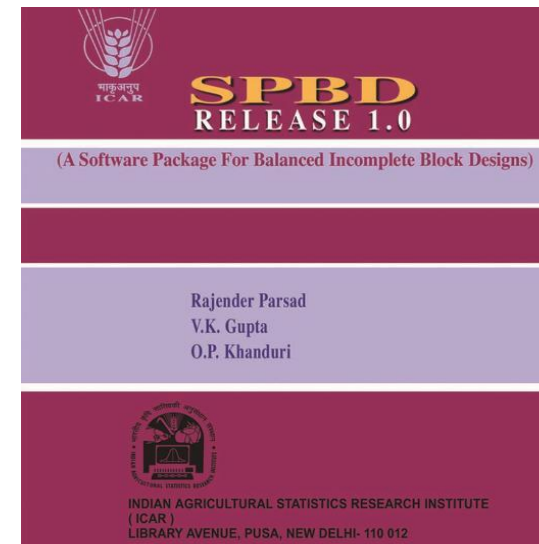
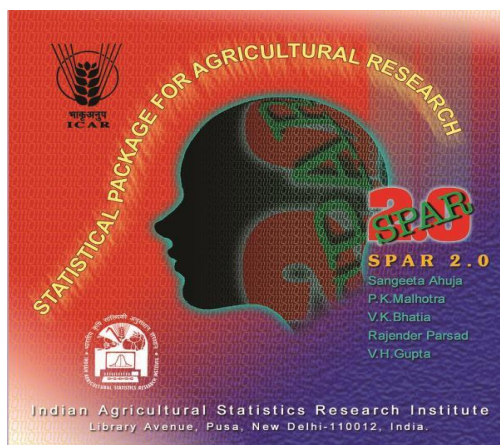


भारतीय कृषि सांख्यिकी अनुसंधान संस्थान  
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## Sale of statistical Packages: 2018 to till date

No. of Licenses sold: 43  
Resource generation: Rs 72,500/-





भारतीय कृषि सांख्यिकी अनुसंधान संस्थान  
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## Status of budget of ITMU/ZTMC

Item	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Budget released (In lakh )	2,50,000	8,00,000	4,55,000	3,58,000	5,25,000	23,88,000
Expenditure	2,36,949	4,08,882	3,67,445	3,39,650	5,06,825	18,59,751
Refund/ unutilized	13,051	3,91,118	87,555	18,350	18,175	5,28,249



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## ICAR IPR Repository

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3. Go to **Kno List** -> (Choose any of one: Patents/Copyrights/Variety Registration) -> Click on **Accepted**
4. Display of all Patents/Copyrights/Variety Registration list
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6. For making corrections, click on **Update**
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# ICAR-IPR Repository

(Agricultural Knowledge Resources and Information System Hub for Innovations)

(An initiative of Indian Council of Agricultural Research)

<https://krishi.icar.gov.in/icaripdb>



ICAR established a three-tier intellectual property (IP) management system in 2006 to manage the intellectual assets, whereby each institute is equipped with knowledge, manpower and freedom of decision, which is governed by its "Guidelines for Intellectual Property Management and Technology Transfer/ Commercialization" (ICAR 2006- which is again revised in 2018). To institutionalize this system, ICAR had also launched a scheme in its XI plan budget, which completed 5 years in 2012. Under this system, Institute Technology Management Units (ITMUs) headed by scientific personnel, were formed at all ICAR institutes. To facilitate these ITMUs, five Zonal Technology Management Centres (ZTMCs) were opened in different zones for technology protection, promotion and commercialization. At central level, Intellectual Property and Technology Management (IP&TM) Unit is leading this system by providing budget, technical support in case to case basis and assistance for IP related legal issues. Based on the encouraging lessons learnt during the XI Plan, the scope in the proposed XII Plan scheme is considerably enhanced.

The enhanced scope is thus given the new name, 'National Agriculture Innovation Fund' with two components viz. Component I: Innovation Fund (the XI Plan Scheme of Intellectual Property Management and Transfer/ Commercialization of Agricultural Technologies); and Component II: Incubation Fund (Supporting Agri-business Incubation Centres in institutions developing agricultural technologies).

ICAR institutes are using different IP tools to protect their intellectual assets viz. patents, trademarks, copyrights and designs. To compile these assets in a scientific manner with its regular updation at inventor level, a workflow based repository for Patents obtained/in process is made available for researchers/ policymakers.





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**ITMU Website: <https://iasri.icar.gov.in/itmu/>**



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## About ITMU at IASRI

As per the 'ICAR Guidelines for Intellectual Property Management and Technology Transfer/ Commercialization' an Institute Technology Management Unit (ITMU; short title for Intellectual Property Management and Technology Transfer Commercialization Unit at Institute level IPM&TTU) for management of its IP/ Deemed IP and transfer/commercialization of technologies has been constituted for pursuing all IP protection, maintenance and transfer/commercialization related matters at the institute level as per these guidelines and any other administrative or policy decisions taken in the ICAR from time to time. This will seek any specific, case-to-case basis advice/assistance from the Zonal Agro-Technology Management Centres (ZTMCs) at the zonal level.


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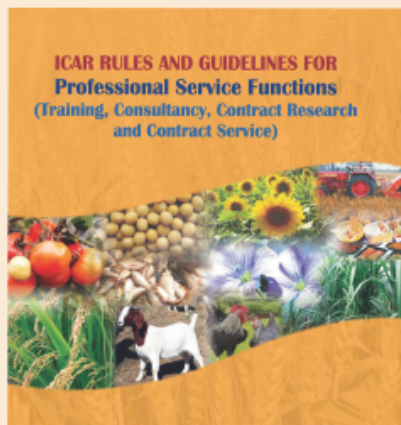
Institute Technology Management Unit at IASRI has applied for copyrights for the technologies which have been developed by IASRI. The technology and it's copyrights details can be viewed as below:

Copyright Received: IASRI as Sole/Lead organization

S.No.	Name of Technology(Software)/ Literary Work	Author(s)	*Author(s) with affiliation	Applied on	Diary Number	Copyright Registration Number	Copyright Granted on (Received at IASRI)
1.	<a href="#">Statistical Package for Factorial Experiments (SPFE 1.0)</a>	1. Sangeeta Ahuja <sup>1</sup> 2. Rajender Parsad <sup>1</sup> 3. V.K. Gupta <sup>1</sup> 4. P.K. Malhotra <sup>1</sup>	1. IASRI, New Delhi-110012	11/03/2011	2841/2011-CO/SW	<a href="#">SW-6674/2013</a>	06/06/2013
2.	<a href="#">Statistical Package for Augmented Designs (SPAD)</a>	1. Abhishek Rathore <sup>1</sup> 2. Rajender Parsad <sup>1</sup> 3. V.K. Gupta <sup>1</sup>	1. IASRI, New Delhi-110012	11/03/2011	2842/2011-CO/SW	<a href="#">SW-6675/2013</a>	06/06/2013
3.	<a href="#">Statistical Package for Animal Breeding (SPAB2.0)</a>	1. I.C. Sethi <sup>1</sup>	1. IASRI, New Delhi-110012	11/03/2011	2843/2011-CO/SW	<a href="#">SW-6676/2013</a>	06/06/2013



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## Saleble technology

### Saleable Technology

These saleable technologies are mainly softwares, which are used in agricultural domain and the technologies could be purchased as a helping tool to solve out various purposes in the field of agriculture. The technologies details are as given below:

#### [SPAR 2.0: Statistical Package for Agricultural Research data analysis \(SPAR 2.0\)](#)

**(Works better on Windows XP)**

1. SPAR 2.0 is useful for the analysis of experimental research data in Plant Breeding and Genetics.
2. The package consists of eight modules (i) Data Management (ii) Descriptive Statistics (iii) Estimation of Breeding values (iv) Correlation and Regression Analysis (v) Variance and Covariance Components Estimation (vi) Stability Analysis (vii) Multivariate Analysis (viii) Mating Design Analysis.

[How to purchase](#)

#### [SPAD: Statistical Package for Augmented Designs \(SPAD\)](#)

**(Works better on Windows XP/Vista/7)**

1. SPAD is useful for designing agricultural experiments conducted for comparing existing practices / check varieties, called controls, with new practices / varieties / germplasm collections, called tests, where the experimental material for the tests is limited and it is not possible to replicate them in the design.



# ICAR-IASRI: Institute Technology Management Unit

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## LoAs and MoUs

### List of LoAs and MoUs

S.No.	Type	Signed Between	Date	Work
1	LoA	The Food and Agriculture Organization of the United Nations (FAO) India and ICAR- IASRI, Pusa, New Delhi-110012	15/10/2014	For provision of "Research on improving methods for estimating crop area, yield and production under mixed, repeated and continuous cropping".
2	LoA	The Food and Agriculture Organization of the United Nations (FAO) India and ICAR- IASRI, Pusa, New Delhi-110012	09/06/2017	'Pilot study on-farm Post-harvest produce management of including stock of private food grains dovetailing with the 'input survey' under quinquennial Agriculture Census'.
3	LoA	The Food and Agriculture Organization of the United Nations (FAO) India and ICAR- IASRI, Pusa, New Delhi-110012	01/11/2017	Three Annexes to the global strategy "Guidelines of the Measurement of Post-production losses".
4	LoA	The Food and Agriculture Organization of the United Nations (FAO) India and ICAR- IASRI, Pusa, New Delhi-110012	17/01/2018	Field test of Three Annexes to the global strategy "Guidelines of the Measurement of Harvest and Postharvest losses".
5	MoU	Directorate of Economics and Statistics (DES), Department of Agriculture, Cooperation & Farmers Welfare (DAC&W), Ministry of Agriculture & Farmers Welfare, Government of India, and	11/02/2020	Examine the adequacy of administrative setup in Directorate of Economics and Statistics (DES), Department of Agriculture, Cooperation & Farmers Welfare (DAC&W) and the State/UTs

### MoU and LoA signed by ICAR-IASRI during 2022-23:

SN	Type	Signed Between	Date	Work
1	MoU	<a href="#">National Agricultural Higher Education Project, Component 2, ICAR-IASRI, New Delhi-110012 and <b>University of Agricultural Sciences (UAS) GKVK Campus, Bengaluru-560065</b></a>	26/05/2022	To establish and maintain an Augmented Reality (AR)/ Virtual Reality (VR) Experience Centre at University of Agricultural Sciences (UAS) GKVK Campus, Bengaluru-560065 under NAHEP
2	MoU	<a href="#">National Agricultural Higher Education Project, Component 2, ICAR-IASRI, New Delhi-110012 and <b>Punjab Agricultural University, Ludhiana, Punjab-141004</b></a>	26/05/2022	To establish and maintain an Augmented Reality (AR)/ Virtual Reality (VR) Experience Centre at Punjab Agricultural University, Ludhiana, Punjab-141004 under NAHEP
3	MoU	<a href="#">Association of Innovation Development for Entrepreneurship in Agriculture Centre for Agri-Innovation <b>ICAR-NAARM, Hyderabad-500030</b> and ICAR- IASRI, Pusa, New Delhi-110012</a>	08/07/2022	To co-operate for accessing the laboratory and infrastructure facilities and mentoring under the incubation programme of a-IDEA, NAARM. It aims to promote entrepreneurship in agriculture and allied sectors.
4	MoU	<a href="#">CSIR- National Botanical Research Institute, <b>Lucknow -226001</b> and ICAR- IASRI, Pusa, New Delhi-110012</a>	07/10/2022	For genomic data analysis generated on cotton crop related with boll weight QTL for cotton yield improvement.
5	LoA	<a href="#">The Food and Agriculture Organization of the <b>United Nations (FAO) India</b> and ICAR- IASRI, Pusa, New Delhi-110012</a>	11/11/2022	Agricultural policy, measuring monitoring and analysis in India based on well-established, country owned and robust policy analysis and monitoring system producing regularly updated analyses to inform to government decision at central and state levels.
6	MoU	<a href="#">ASRB (Agricultural Scientists Recruitment Board) and ICAR- IASRI, Pusa, New Delhi-110012</a>	05/12/2022	To developing scoreboards for recruitment of RMP position and other scientific position of ICAR,



भारतीय कृषि सांख्यिकी अनुसंधान संस्थान  
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- **Issues:**
- *The Copyright applications are now taking very long time at the initial stage.*
- *The Copyright applications are repeatedly being returned by Copyright office with number of minor queries and thus being delayed a lot.*

Future targets for next 3 years (2023-24, 2024-25, 2025-26)

- **To acquire Copyrights for new products/software**
- **Sensitization Workshop on IPRs/Copyrights for faculty and students**
- **Preparing Licensing Proposal for Academic Management System and other Informatics Tools**
- **Conduct sponsored Training Programmes.**
- **Strengthened IPR Repository**
- **To initiate Incubation Plans**



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