First Draft Format for Technology Database Agriculture

The details may be asked in following four parts Part 1: General

1.	Technology Name	:	Give Name of the technology
2.	Major Resource/Subject/Category Classification	:	Plants, Plant Products, Animals/ Livestock Products, Feeds and Biologicals/Microbes, Fish, Fish Products, Farm Implement & Machinery,
 			Post Harvest Equipment, Product & Process, Communication Tools/Teaching Aids, Extension Methods, Econometric/ Statistical/ Informatics/
_			Bio-Informatics Models, techniques, IT Tools, etc.
3.	Minor Subject Classification	:	Use AIMS subject codes (codes attached) Annexure I (N20 and N01 to be used for
			Agricultural Engineering)
4.	Technology Group	:	Varieties (for improving productivity, quality, resistance)/Biofertilizers/Biopesticides/Equipment-process/ Diagnostic kits-vaccine/ Value addition/Intervention/ Innovation/ Production technology (includes Integrated nutrient management, Integrated water management, Integrated weed management, Resource conservation technology, Cropping system, Farming system, Crop diversification, Organic farming, etc.)/Protection technology (includes Cultural controls, Chemical control, Biological control/ Biocontrol agents, Forecasting of diseases and pests, Integrated pest management (disease, insects, weeds, nematodes, others)/Farm implements/ Tools & Machinery/Post Harvest Equipment/ Value Addition (Product/Processes)/Animal Nutrition/ Animal Production System/ Animal Species Improvement/Fisheries/ Statistical Methodologies/ Econometric Methods/ Informatics Tools (includes Statistical packages, Service oriented computing, Information
5.	Technology Related to	:	Varietal Selection; Potential yield improvement; Resistance to biotic/abiotic stress; Maturity days, availability of seed/vaccine/product; Field Preparation; Nutrient Management; insect management; plant disease management; weed management; plant nematode management; farm machinery; crop husbandry; Harvesting; Post harvesting; sustainability; IPM; INM; seed treatment; sowing; Intercropping; planting; spacing; application; Market; Current price of the products; Animal Production and Health (Select the most appropriate one which is applicable. The list is

			suggestive, new items may be added)
6.	Complete Details of Technology	:	Identify inputs required with dose/quantity; step- by-step instruction of how to do it; Design & Development of Prototype/product//process and expected outcome/benefit;
7.	Brief Description of technology including salient features	:	Summary of the technology in 5-6 sentences including salient features
8.	Benefits/Utility	:	
9.	Precautions with the Technology, IF ANY",	:	To inform the farmers, manufacturers, entrepreneurs about to precautionary/ restrictive measures associated with technology adoption
10.	Business and Commercial Potential, if any	:	
11.	Scalability	:	
12.	Potential Investors to this technology	:	
13.	Cost-Benefit Ratio	:	
14.	Target Market/Users	:	
15.	Impact, if already adopted	:	In terms of area covered/beneficiaries/monetary savings etc. (in quantifiable terms) including Social Impact
16.	Technology Spread, if any {Please provide the geographical area and area under the technology}	•	
17.	Contact Persons	:	

Part II: Technology Development

1.	Developed by	:	Please provide details of main Centre and
	(Organization details)		Regional Centre/AICRP Centre
			Organization Details should be as per the details
			in Annexure II
2.	Project(s) Details	:	Name of the project
	{Please provide title of		
	the project(s) through		
	which Technology was		
	developed}		
3.	Validated by	:	Organization Details should be as per the details
	(organization details)		in Annexure II
4.	Year of Validation	:	4 digit Year
5.	Year of	:	dd/mm/year, Reference notification number
	Notification/Identification		
6.	Year of Release/adoption		Reference Release Number and date of
			development/release/adoption

7.	Agrometerology	Mean annual rainfall, minimum and maximum
	parameters for location	temperature of the region
	where technology was	
	developed and validated	

Part III: Applies to (Regional Differentiation, etc)

1.	Location	:	 Zone (As per the Planning commission) as per ANNEXURE III Agro-ecological Zones (NBSS and LUP) as per ANNEXURE IV State Districts
2.	If technology applies to any specific region/location, the extent of area or latitude/longitude of the area	••	to integrate and link the technology with other resources in spatial domain.
3.	Farmer Type	:	Small/Marginal/Medium/Large
4.	Soil Type/Resource Type	:	Provide list is a combo Box
2.	Water availability status	:	Irrigated/ Rainfed
5.	Commodity	:	Name/Cropping System/animal Production System/, (to be provided through a Combo Box)
6.	Time of Application/Use	•	Pre-sowing; DAS/DAT/Before Flowering; After Flowering; (may be suitably expanded for Animal Sciences, Fisheries, Engineering etc.)
7.	How to use?	:	<explanation> along with photographs if any</explanation>
8.	Commercial Availability	:	Sources
9.	Media Resources	:	Video/Audio/Images/Posters
10.	Others, please specify	:	

Part IV: IPR Related

1.	Major References (Journal	:	For each publication-Please provide type
	Articles/Reports/ Web		(Research paper/technical bulletin/ Reports/ Web
	Pages/ Notifications,		Pages/ Notifications,
	Pamphlets, Photos, etc.)		Pamphlets, Photos, etc.), title, authors/journal/year
			of publication, etc., a soft copy
2.	Patents		Patent reference number, title, patented by
			organization, patenting agency, year (attach a
			scanned copy)
3.	Copyrights		Copyright number, title, patented by

	organization, patenting agency, year (attach a
	scanned copy)

Wherever applicable, original document copy should be attached/original URL may also be provided.

Annexure I

AIMS Subject Classification

A Agriculture

A01 Agriculture - General aspects

A50 Agricultural research

B Geography and history

B10 Geography

B50 History

C Education, extension, and advisory work

C10 Education

C20 Extension

C30 Documentation and information

D Administration and legislation

D10 Public administration

D50 Legislation

E Economics, development, and rural sociology

E10 Agricultural economics and policies

E11 Land economics and policies

E12 Labour and employment

E13 Investment, finance and credit

E14 Development economics and policies

E16 Production economics

E20 Organization, administration and management of agricultural enterprises or farms

E21 Agro-industry

E40 Cooperatives

E50 Rural sociology

E51 Rural population

E70 Trade, marketing and distribution

E71 International trade

E72 Domestic trade

E73 Consumer economics

E80 Home economics, industries and craftsE90Agrarian structure

F Plant production

F01 Crop husbandry

F02 Plant propagation

F03 Seed production

F04 Fertilizing

F06 Irrigation

- F07 Soil cultivation
- F08 Cropping patterns and systems
- F30 Plant genetics and breeding
- F40 Plant ecology
- F50 Plant structure
- F60 Plant physiology and biochemistry
- F61Plant physiology Nutrition
- F62 Plant physiology Growth and development
- F63 Plant physiology Reproduction
- F70 Plant taxonomy and geography

H Protection of plants and stored products

- H01 Protection of plants General aspects
- H10 Pests of plants
- H20 Plant diseases
- H50 Miscellaneous plant disorders
- H60 Weeds

J Handling, transport, storage and protection of agricultural products

- J10 Handling, transport, storage and protection of agricultural products
- J11 Handling, transport, storage and protection of plant products
- J12 Handling, transport, storage and protection of forest products
- J13 Handling, transport, storage and protection of animal products
- J14 Handling, transport, storage and protection of fisheries and aquacultural products
- J15 Handling, transport, storage and protection of non-food or non-feed agricultural products

K Forestry

- K01 Forestry General aspects
- K10 Forestry production
- K11 Forest engineering
- K50 Processing of forest products
- K70 Forest injuries and protection

L Animal production

- L01 Animal husbandry
- L02 Animal feeding
- L10 Animal genetics and breeding
- L20 Animal ecology
- L40 Animal structure
- L50 Animal physiology and biochemistry
- L51 Animal physiology Nutrition
- L52 Animal physiology Growth and development
- L53 Animal physiology Reproduction
- L60 Animal taxonomy and geography
- L70 Veterinary science and hygiene
- L72 Pests of animals
- L73 Animal diseases
- L74 Miscellaneous animal disorders

M Aquatic sciences and fisheries

M01 Fisheries and aquaculture - General aspects

- M11 Fisheries production
- M12 Aquaculture production and management
- M40 Aquatic ecology

N Machinery and buildings

- N01 Agricultural engineering
- N02 Farm layout
- N10 Agricultural structures
- N20 Agricultural machinery and equipment

P Natural resources

- P01 Nature conservation and land resources
- P05 Energy resources and management
- P06 Renewable energy resources
- P07 Non-renewable energy resources
- P10 Water resources and management
- P11 Drainage
- P30 Soil science and management
- P31 Soil surveys and mapping
- P32 Soil classification and genesis
- P33 Soil chemistry and physics
- P34 Soil biology
- P35 Soil fertility
- P36 Soil erosion, conservation and reclamation
- P40 Meteorology and climatology

Q Food science

- Q01 Food science and technology
- Q02 Food processing and preservation
- Q03 Food contamination and toxicology
- Q04 Food composition
- O05 Food additives
- O51 Feed technology
- Q52 Feed processing and preservation
- Q53 Feed contamination and toxicology
- Q54 Feed composition
- Q55 Feed additives
- Q60 Processing of non-food or non-feed agricultural products
- Q70 Processing of agricultural wastesQ80Packaging

S Human nutrition

- S01 Human nutrition General aspects
- S20 Physiology of human nutrition
- S30 Diet and diet-related diseases
- S40 Nutrition programmes

T Pollution

- T01 Pollution
- T10 Occupational diseases and hazards

U Auxiliary disciplines

U10 Mathematical and statistical methods

U30 Research methods U40 Surveying methods

Annexure II

Format of the Organization Details

Name of the Organization:

Acronym of the Organization:

Type (ICAR/SAU/etc.)

Complete Postal Address:

Email:

Web:

Phone:

Annexure III

Zone (Planning Commission)

Region: North India State: Jammu & Kashmir

Abbrivation	Agroclimatic Zone
AZ1	Low Altitude Subtropical
AZ2	Intermediate
AZ3	Valley temperate
AZ4	Dry Temperate
AZ5	Cold Arid

State: Himachal Pradesh

AZ6	High hills Temperate Wet
AZ7	Sub Montaneb and low hills subtropical
AZ8	Mid hills subtropical
AZ9	Sub Montaneb and low hills subtropical

State: Punjab

AZ10	Undulating Plain
AZ11	Central Plain
AZ12	Western Plain
AZ13	Western
AZ14	Sub montane undulating

State: Haryana

AZ15	Eastern
AZ16	Western

State: Rajasthan

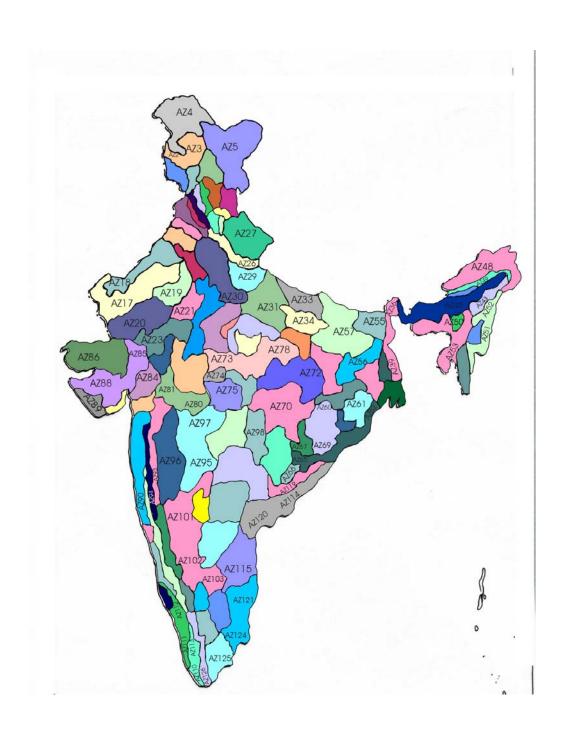
AZ17	Arid Western Plain
AZ18	Irrigated North Western Plain
AZ19	Transitional palin zone of Island drainage
AZ20	Transitional plain zone of Luni Basin
AZ21	Semiarid eastern plain
AZ22	Flood prone eastern plain
AZ23	Sub humid southern plain and alluvial hill
AZ24	Southern humid plain
AZ25	South eastern humid plain
	State : Uttaranchal
AZ26	Hill
AZ27	Bhabar and Tarai
	State: Uttar Pradesh
AZ28	Western Plain
AZ29	Mid Western Plain
AZ30	South Western Semi arid
AZ31	Central Plain
AZ32	Bundel Khand
AZ33	North Eastern Plain
AZ34	Eastern Plain
AZ35	Vindyan
	Region : East & North east India State : West Bengal
AZ36	Hilly
AZ37	Tarai
AZ38	Old Alluvial
AZ39	New Alluvial
AZ40	Laterite and red soil Zone
AZ41	Coastal Saline
	State: Assam
AZ42	Basic valley
AZ43	Upper Brahamaputra
AZ44	Hill
AZ45	Coastal Brahamaputral
AZ46	AZ47
AZ47	Lower Brahamaputra valley State: Arunachal Pradesh
	State: Arunachai Fradesh

AZ48 Alpine	
AZ49 Temperate Sub Alpine	
State: Meghalaya	
AZ50 Sub tropical Hill	
State: Manipur	
AZ51 Sub tropical plain	
State : Nagaland	
AZ52 Mid Tropical Hill	
State : Tripura	
AZ53 Mid Tropical Plain	
State: Bihar and Jharkhand	
AZ54 Northwest Alluvial Plain	
AZ55 North east Alluvial plain	
AZ56 South Bihar Alluvial Plain	
AZ57 Central and northeastern plateau	
AZ58 Western Plateau	
AZ59 South eastern plateau	
State : Orissa	
AZ60 North western plateau	
AZ61 North Central plateau	
AZ62 North eastern Coastal plain	
AZ63 East & southeastern coastal plain	
AZ64 North eastern ghat	
AZ65 Eastern gaht highland	
AZ66 Southeastern ghat	
AZ67 Western undulating	
AZ68 West central table	
AZ69 Mid Central table land	
Peninsular India State:Madhya Pradesh and Chattisgarh	
AZ 70 Chattigarh plain zone including Chattisgarh districts	
AZ71 Bastar Plateau	
AZ72 North hill zone of Chattisgarh	
AZ73 Kymora plateau and Satpara hill	
AZ74 Vindya Plateau	
AZ75 Central Narmada Valley	
AZ76 Gird	

AZ78 Satpura plateau AZ79 Malwa Plateau AZ80 Nimar Valley AZ81 Jhabua hills State: Gujarat AZ82 East Gujarat heavy rainfall AZ83 South Gujarat AZ84 Middle Gujarat AZ85 North Gujarat AZ86 North Western Gujarat AZ87 South Saurashtra AZ88 North Saurashtra AZ89 Ghat and Coastal AZ90 South Konkan Coastal AZ91 North Konkan Coastal AZ92 Western Ghat AZ92 Western Ghat AZ93 Submontane AZ94 Western Maharashtra Plain AZ95 Scarcity AZ96 Central Maharashtra plateau AZ97 Central Vidarbha Eastern Vidarbha AZ98 North east dry AZ100 Northern dry AZ101 Southern transition AZ106 Western transition AZ107 Hill AZ108 Coastal State: Kerala AZ109 Northern AZ110 Southern AZ110 Southern AZ110 Southern AZ111 Central		
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AZ104 Southern dry AZ105 Southern transition AZ106 Western transition AZ107 Hill AZ108 Coastal State: Kerala AZ109 Northern AZ110 Southern AZ111 Central	AZ102	Central dry
AZ105 Southern transition AZ106 Western transition AZ107 Hill AZ108 Coastal State: Kerala AZ109 Northern AZ110 Southern AZ111 Central	AZ103	Eastern dry
AZ106 Western transition AZ107 Hill AZ108 Coastal State : Kerala AZ109 Northern AZ110 Southern AZ111 Central	AZ104	Southern dry
AZ107 Hill AZ108 Coastal State : Kerala AZ109 Northern AZ110 Southern AZ111 Central	AZ105	Southern transition
AZ108 Coastal State: Kerala AZ109 Northern AZ110 Southern AZ111 Central	AZ106	Western transition
State : Kerala AZ109 Northern AZ110 Southern AZ111 Central	AZ107	Hill
AZ109 Northern AZ110 Southern AZ111 Central	AZ108	Coastal
AZ110 Southern AZ111 Central		State : Kerala
AZ111 Central	AZ109	Northern
	AZ110	Southern
AZ112 High Altitude	AZ111	Central
<u> </u>	AZ112	High Altitude

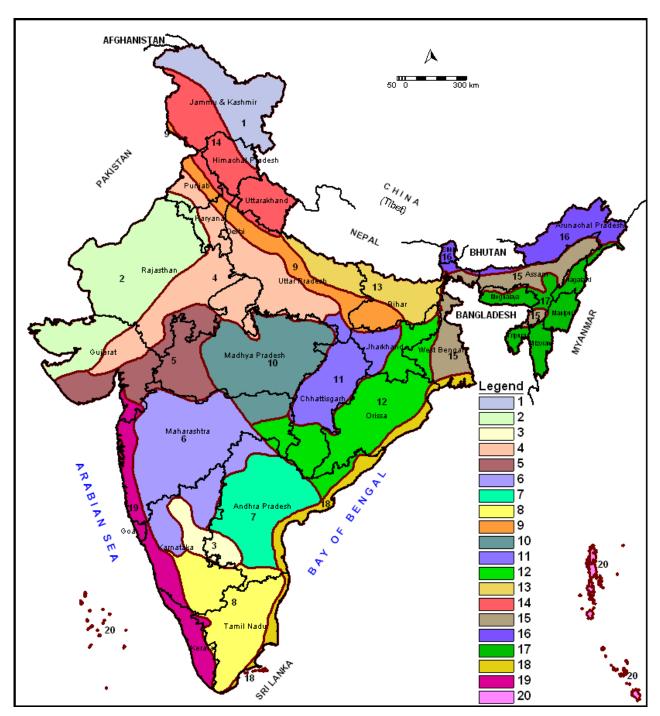
AZ113	Problem area
	State : Andhra Pradesh
AZ114	North Coastal
AZ115	Southern
AZ116	Northern Telengana
AZ117	Scarce rainfall zone of Rayalseema
AZ118	Southern Telengana
AZ119	High altitude and tribal
AZ120	Krishna Godavari
	State : Tamil Nadu
AZ121	North eastern
AZ122	North western
AZ123	Western
AZ124	Kavery delta
AZ125	Southern
AZ126	High rainfall
AZ127	High altitude and hilly

Refer image in the next page for delineation:



ANNEXURE_IV

AER	Agro-ecological regions (AERs) of India delineated by NBSS&LUP
1	Western Himalayas cold arid ecoregion, with shallow skeletal soils and length
	of growing period (GP) <90 days;
2	Western plain, Kachchh and part of Kathiawar peninsula, hot arid ecoregion,
	with desert and saline soils and GP <90 days;
3	Deccan plateau, hot arid ecoregion, with red and black soils and GP <90 days;
4	Northern plain and central highlands including Aravallis, hot semi-arid ecoregion, with alluvium derived soils and GP 90–150 days;
5	Central (Malwa) highlands, Gujarat plains and Kathiawar peninsula, hot semi- arid ecoregion, with medium and deep black soils and GP 90–150 days;
6	Deccan plateau, hot semi-arid ecoregion, with shallow and medium (with
	inclusion of deep) black soils and GP 90–150 days;
7	Deccan (Telangana) plateau and Eastern Ghats, hot semi-arid ecoregion, with red and black soils and GP 90–150 days;
8	Eastern Ghats, Tamil Nadu uplands and Deccan (Karnataka) plateau, hot semi-arid ecoregion, with red loamy soils and GP 90–150 days;
9	Northern plain, hot sub-humid (dry) ecoregion, with alluvium derived soils and GP 90–150 days;
10	Central Highlands (Malwa, Bundelkhand and Eastern Satpura), hot subhumid ecoregion, with black and red soils and GP 150–180 (to 210) days;
11	Eastern plateau (Chhattisgarh), hot subhumid ecoregion, with red and yellow soils and GP 150–180 days;
12	Eastern (Chhotanagpur) plateau and Eastern Ghats, hot subhumid ecoregion, with red and lateritic soils, and GP 150–180 (to 210) days;
13	Eastern plain, hot subhumid (moist) ecoregion, with alluvium derived soils and GP 180–210 days;
14	Western Himalayas, warm subhumid (to humi92756.35d with inclusion perhumid) ecoregion, with brown forest and podzolic soils and GP 180–210+days;
15	Bengal and Asom plain, hot subhumid (moist) to humid (inclusion of perhumid) ecoregion, with alluvium derived soils and GP 210+ days;
16	Eastern Himalayas, warm per-humid ecoregion, with brown and red hill soils and GP 210+ days;
17	North-Eastern Hills (Purvanchal), warm perhumid ecoregion, with red and lateritic soils and GP 210+ days;
18	Eastern Coastal plain, hot subhumid to semi-arid ecoregion, with coastal alluvium derived soils and GP 90–210+ days;
19	Western Ghats and Coastal plain, hot humid–per-humid ecoregion, with red,
19	lateritic and alluvium derived soils and GP 210+ days;
20	Islands of Andaman-Nicobar and Lakshadweep, hot humid and perhumid
20	island ecoregion, with red loamy and sandy soils and GP 210+ days.
	isiand ecoregion, with red toainy and salldy sons and GF 210+ days.



Source: NBSS&LUP, Nagpur