

**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
CCS HARYANA AGRICULTURAL UNIVERSITY, HISAR  
STATE AGRICULTURAL UNIVERSITY/ICAR/ IIT/  
OTHER INSTITUTES**



**AND  
INDIA METEOROLOGICAL DEPARTMENT  
MINISTRY OF EARTH SCIENCES  
GOVERNMENT OF INDIA**



**ON  
GRAMIN KRISHI MAUSAM SEWA**

**MEMORANDUM OF UNDERSTANDING (MoU) BETWEEN**  
**CCS HARYANA AGRICULTURAL UNIVERSITY, HISAR**  
**AND**  
**INDIA METEOROLOGICAL DEPARTMENT, MINISTRY OF EARTH SCIENCES**  
**GOVERNMENT OF INDIA**  
**FOR**  
**COLLABORATION IN GRAMIN KRISHI MAUSAM SEWA**

1. This memorandum of Understanding made this day, i.e. .... between the India Meteorological Department (IMD), Ministry of Earth Sciences (MoES) with its office at Mausam Bhawan, Lodhi Road, New Delhi – 110003, (hereinafter referred to as "IMD" which expression shall unless excluded by or repugnant to the context be deemed to include its successors in office and assignees) of the one part AND the **Chaudhary Charan Singh Haryana Agricultural University**, Hisar established under act **Parliament act No. 16 & 1970** to the state of Haryana (hereinafter referred to as **CCS HAU** which expression shall, unless excluded by or repugnant to the context, be deemed to include its successors in office and permitted assignees) of the other part.

Whereas the Government of India has entrusted upon India Meteorological Department (IMD) the task of development of Agro-Meteorological Advisory Services in the country. In pursuance hereof, IMD has set up in the country a network of about 130 Agro-Meteorological Field Units (AMFUs), which are multidisciplinary units responsible for preparation and dissemination of agromet advisories. Whereas the **CCS HAU** is willing to continue as AMFU set up and functioning at **Hisar** and **Kaul** under its jurisdiction. Now, it is hereby agreed as follows:

2. Each AMFU will be manned by an Agro-meteorologist who would utilize the relevant meteorological products provided by IMD to generate specific advisories for agricultural management for the respective district and Agro Climatic Zones (ACZ) identified under the area of its jurisdiction and disseminates the same to the farming community. In addition to that an OBSERVER will be appointed who will record the observation and transmit on real-time basis to IMD and also assist the Scientist in maintenance of the observatory. The responsibilities of AMFUs would include preparation of weather based advisories for management practices in agriculture after due consultation with subject matter specialist/scientists/professors of concerned disciplines and disseminate the same to the end users using all possible modes of communication. It will also liaise and engage with Indian Council of Agricultural Research (ICAR), District Agriculture/Horticulture/Animal husbandry Officers, Krishi Vigyan Kendras (KVKs) and other agencies to render Agromet Advisory Service in a holistic manner. It will also disseminate advisories through all

possible means to have outreach up to village level and arrange to provide necessary feedback to IMD for development of :

- i) Relevant Agromet Advisories for the stressed crops/livestock etc.
- ii) Regional/locale-specific agromet predictive models;
- iii) Crop-weather relationships and crop calendar
- iv) Forewarning models for weather and climate based pests and disease etc.
- v) The responsibility of mentoring and guiding respective KVKs under their ACZ jurisdiction to build and operate District Agro-Met Units (DAMU) to serve district/sub-district specific AAS responsibility at par with AMFUs.

### 3. **OBLIGATIONS OF IMD**

- 3.1 IMD agrees to provide weather forecast in quantitative terms at appropriate scale to the AMFUs, with due guidance/support from coordinators from AASD, New Delhi.
- 3.2 IMD agrees to provide grant-in-aid to AMFUs subject to personal and budgetary limitations imposed by the government from time to time after submission of duly audited utilization certificate, duly audited statement of expenditure and demand for grant-in-aid by the grantee University/Institution, for defraying expenditure towards salaries of one Scientist and one Observer, travel expenses of the staff approved by IMD and appointed/engaged by the AMFUs exclusively for operating the agro-met advisory services. Grant-in-Aid will cover the salary (as defined by GOI) for posts of Scientist in the scale of Rs.15600-39100 (GP Rs. 6000/-) and Agromet Observer in the scale of Rs. 5200-20200 (GP Rs. 2000/-) with Dearness Allowances (DA), House Rent Allowances (HRA) and annual increment as per 6<sup>th</sup> CPC on contractual basis year-on-year based on performance review and shall be co-terminus with the GKMS scheme. This will be applicable where entry level starts with basic pay of Rs.15600-39100 (GP Rs. 6000/- as per 6<sup>th</sup> CPC). Therefore, the host institute can appoint/continue the manpower in the scale of Rs.15600-39100/- + AGP of Rs.6000/- as per the 6<sup>th</sup> CPC. Promotion to AGP higher than 6000/- shall not be considered in this scheme.
- 3.3 As per proposed 7<sup>th</sup> CPC for Universities/Institutes, the emoluments of Scientist will be Rs.57700/- (starting basic pay= Rs.57700/-, Level-10) in the scale of Rs.15600-39100/- and of Observers will be 21700/- (Level-3) plus Dearness Allowances, House Rent Allowances and annual increment as per para 3.2 above.
- 3.4 In addition to the item no. 3.2 and 3.3, if the university intends to continue / recruit manpower with the grade pay higher than Rs. 6000/-, then the difference from above emoluments will have to be paid by the host institute.
- 3.5 IMD agrees to provide support for on-line preparation of Agromet advisory bulletin.



- 3.6 IMD will supply/replace the meteorological instruments and sensors for installed Automatic Weather Stations (AWS) and carry out periodic inspections as required.
- 3.7 Contingent expenses including consumables, telephone, fax, SMS charges, stationary, publication, etc. necessary for effective functioning of agro-met advisory services.
- 3.8 Development of human resources related to the AAS as approved by IMD.
- 3.9 IMD shall act upon the documentation prepared by AMFU's on services rendered by them in order to assess the efficacy of the services and carry out over all supervision.
- 3.10 Setting up smart telecommunication system and providing required instruments and software for uninterrupted data flow from the proposed observatories to IMD.
- 3.11 Providing processed data recorded at (Name of the Institute) after proper scrutiny for utilization in different research activities as well as for improvement of agro advisories, based upon specific requests for R&D work in relevant area.

#### 4. **OBLIGATIONS OF THE CCS HAU (AMFUs)**

The CCS HAU (AMFUs) agrees

- 4.1 To constitute an Expert panel with participation of district level representative from State Department of Agriculture, Horticulture and Animal Husbandry to prepare bulletin in a more relevant and purposeful.
- 4.2 Prepare and disseminate weather based agromet advisory bulletins (bi-lingual) for different parts of districts and Agro Climatic Zones.
- 4.3 Disseminate advisories through SMS, firms under PPP mode, extension agencies & other modes of communication and uploading in the Divisions website, print media etc.
- 4.4 To organize/participate in awareness activities to popularize Agromet Advisory Service and willingness to undertake impact assessment studies under grant-in aid program.
- 4.5 To monitor the dissemination status of SMS advisory through dashboard and generate weekly statistics and account of SMS distribution.
- 4.6 To provide security and maintain Agro-meteorological observatory/Automatic Weather Stations with full custodial responsibility.
- 4.7 Record observation (0700 LMT and 1400 LMT, 0300 UTC (i.e. 08.30 hrs IST) and 12 UTC (i.e. 17.30 hrs IST) including soil moisture observation and update the data in archival.
- 4.8 Prepare data base for weather and crop observations and update on real time.
- 4.9 Assist in preparation of local climatological information and agricultural data from districts.
- 4.10 Submit annual progress report, utilization certificate/statement of expenditure duly audited and signed by the competent authority by end of financial year.

- 4.11 To make available experimental field data for calibration and validations of crop models and to indentify weather sensitivity of crops, animals, P&D and management practices.
- 4.12 The essential qualification for the post of Scientist is Masters degree in Agricultural Meteorology or Agricultural Physics with specialization in Agricultural Meteorology. The essential qualification of the Observer will be 10+2 from science stream along with the basic knowledge of computer operations. The Scientist will be engaged as per AMFUs guidelines. All the rules and regulations of the respective host organizations,as well as annual review based contractual appointment will apply.

## 5. Joint Responsibilities

- 5.1 CCS HAU hereby agrees to continue the support in respect offacilities established through grant-in-aid by IMD at the end of project period when IMD support may be phased out.
- 5.2 The agro-advisory services are essentially a cooperative venture. Any matter not covered specifically in the Memorandum of Understanding (MoU) may settled by mutual agreement. On points where disagreement persists, the matter may be referred to the Secretary, MoES and VC, CCS HAU for a decision, which shall be final and binding on the both the parties.
- 5.3 Both IMD and AMFUs will make use of the data generated from observatory/AWS for agricultural research and advisory purpose.
- 5.4 Both parties acknowledge the confidentiality of the information which may be transferred between the parties or obtained or developed during the course of this exchange from time to time as being essential to this MoU and agree not to disclose the same to any third party without prior permission.

## 6. EXTENSION/TERMINATION OF MoU

Three months prior to this memorandum of understanding (MoU) coming to an end the operation of this understanding may be extended by mutual consent for such period or periods as may be considered desirable.

Requests for any major change or termination of this MoU shall be furnished by either party to the other for consideration not less than 90 days in advance of the desired date for effecting change/termination. However, all liabilities for the parties accrued during the period of operation of MoU such as settlement of accounts, handing over of completed research works/results, final drawings, etc., will survive even after the expiry of the MoU. All the equipment and material set up by IMD shall be the property of IMD and shall be restored to IMD in case of termination of MoU.



## 7. COMING INTO FORCE

This MoU shall be deemed to have come into force from the date specified herein and shall continue for a period of five years. All rights and obligations of IMD and CCS HAU shall be deemed to have commenced and accrued from that specified date.

In witness whereof the parties here to have executed this Memorandum of Understanding.

For and on behalf of Chaudhary  
Charan Singh Haryana Agricultural  
University, Hisar, Haryana

For and on behalf of India Meteorological  
Department, New Delhi

Name: Dr. Ram Niwas  
Designation: Dean, CoA

Date: 4-9-21  
Place: CCS HAU HAU

Name: KK Singh  
Designation: Head, Agrimet Cell

Date: 20-9-21  
Place: IMD, New Delhi

Witness

1.

4/9/21  
Dr. M. K. Nishar  
HOD Agril. Mer

2.

4.9.21  
Dr. S.K. Pahuja  
HOD, GBB

Witness

1.

22/9/21  
Dr. S. K. Goshwami  
Sc-E, AASD, IMD, N. Delhi

2.

22.09.2021  
Ashok Kumar  
Met 'A'  
AASD, New Delhi

**Annexure-I**  
**List of AMFUs**

S.No.	Name of units	S.No.	Name of units	S.No.	Name of units
<b>Andhra Pradesh</b>		<b>J &amp; K</b>		88	Malkangiri
1	Anakapalle	43	Jammu	89	Ranital
2	Anantpur	44	Leh	90	Semiliguda
3	Lam	45	Rajouri	<b>Punjab</b>	
4	Tirupati	46	Srinagar	91	Bhatinda
5	Chintapalli	<b>Karnataka</b>		92	Ballawal
<b>Telengana</b>		47	Bangalore	93	Faridkot
6	Hyderabad	48	Bidar	94	Gurudaspur
7	Jagtiyal	49	Bijapur	95	Ludhiana
<b>Assam</b>		50	Brahamavar	<b>Rajasthan</b>	
8	Diphu	51	Dharwad	96	Bikaner
9	Jorhat	52	Hiriyur	97	Sewar
10	Karimganj	53	Naganhalli	98	Jaipur
11	Shillongani	54	Naveli	99	Jodhpur
12	Sonitpur	55	Raichur	100	Kota
13	Gossiagon	56	Sirsi	101	Sriganganagar
<b>NEH</b>		<b>Kerala</b>		102	Udaipur
14	Barapani	57	Ambalayal	103	Faitehpur
15	Jharanapani	58	Kumarakom	104	Banswara
16	Kolasib	59	Pillicode	<b>Tamilnadu</b>	
17	Lamphelpat	60	Trissur	105	Aduthurai
18	Lembuchera	61	Vellayani	106	Chennai
19	Basar	<b>Maharashtra</b>		107	Coimbatore
<b>Bihar</b>		62	Akola	108	Kanniwadi
20	Pusa	63	Dapoli	109	Karaikal
21	Agwanpur	64	Igatpuri	110	Kovilpatti
22	Sabour	65	Kolhapur	111	Namakkal
<b>Chhattisgarh</b>		66	Mulde	112	Ooty
23	Ambikapur	67	Parbhani	113	Pechiparai
24	Jagadapur	68	Pune	<b>Uttar Pradesh</b>	
25	Raipur	69	Rahuri	114	Allahabad
<b>Gujarat</b>		70	Shindewahi	115	Bharaich
26	Anand	<b>Madhya Pradesh</b>		116	Bharari
27	Arnej	71	Chhindawara	117	Faizabad
28	Bhachau	72	Indore	118	Kanpur



29	Dantiwada	73	Jabalpur	119	Modipuram
30	Junagadh	74	Jhabua	120	Varanasi
31	Maktampur	75	Khargone	<b>Uttarakhand</b>	
32	Navasari	76	Morena	121	Pantnagar
33	Targhadia	77	Sehore	122	Ranichauri
<b>Haryana</b>		78	Powerkheda	123	Roorkee
34	Hissar	79	Tikamgarh	<b>West Bengal</b>	
35	Kaul	<b>New Delhi</b>		124	Kalimpong
<b>Himachal Pradesh</b>		80	New Delhi	125	Kalyani
36	Palampur	<b>Orissa</b>		126	Kharagpur
37	Seobagh	81	Bhawanipatna	127	Kakdweep
38	Solan	82	Bhubaneswar	128	Majhian
39	Kukumseri	83	Chiplima	129	Pundibari
<b>Jharkhand</b>		84	G.Udaigiri	<b>Andman &amp; Nicobar</b>	
40	Darsai	85	Keirei	130	Portblair
41	Dumka	86	Keonjhar		
42	Ranchi	87	Mahisapat		



KK.