GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYASABHA
UNSTARRED QUESTION NO. 1626
TO BE ANSWERED ON TUESDAY, 3RD AUGUST, 2021

AUTOMATED WEATHER STATIONS

1626. SHRI NEERAJ DANGI:

Will the Minister of EARTH SCIENCES be pleased to state:

(a) whether Government proposes to set up new Automated Weather Stations with a purpose to provide exact weather forecast to the people, especially the farmers;
(b) if so, State-wise and location-wise details thereof and, if not, the reasons therefor;
(c) the details regarding the system in place for access of weather forecast to the farmers;
(d) whether communication technology is being used by Government to provide exact weather forecast to the farmers; and
(e) if so, the details thereof?

ANSWER
THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND EARTH SCIENCES
(DR. JITENDRA SINGH)

(a) Yes Sir. India Meteorological Department (IMD), has undertaken installation of Agro-Automatic Weather Stations (AWS) at District Agromet Units (DAMUs) located in the Krishi Vigyan Kendras (KVKs) under Indian Council of Agricultural Research (ICAR) network. Agro-AWS is being installed at 200 DAMUs to augment block level Agromet Advisory Services (AAS) under Gramin Krishi Mausam Sewa (GKMS) scheme.

(b) List of 200 DAMUs, where installation of Agro-AWS has been undertaken, is mentioned in Annexure I.

(c) Weather-based operational AAS *viz.* GKMS scheme, rendered by IMD jointly with Indian Council of Agricultural Research (ICAR) and State Agricultural Universities, is a step towards weather-based crop and livestock management strategies and operations for the benefit of farming community in the country. Under the scheme, medium range weather forecast at district and block level is generated and based on the forecast, Agromet Advisories are prepared and communicated by the Agromet Field Units (AMFUs) co-located with State Agricultural Universities, and DAMUs at KVKs to the farmers on every Tuesday and Friday. These agromet advisories help farmers to take decision on day-to-day agricultural operations, which can further optimize the application of input resources at farm level during deficient rainfall situation and extreme weather events to reduce monetary loss and maximize crop yield.

IMD also monitors rainfall situation & weather aberrations and issues alerts & warnings to the farmers from time to time under GKMS scheme. SMS-based alerts and warning for extreme weather events along with suitable remedial measures are issued to take timely operations by the farmers. Such alerts and warnings are also shared with State Department of Agriculture for the effective management of calamity.

(d)-(e) Agromet Advisories are communicated to the farmers through multichannel dissemination system like print and electronic media, Door Darshan, radio, internet etc. including SMS using mobile phones through Kisan Portal launched by Ministry of Agriculture and Farmers' Welfare and also through private companies under Public Private Partnership (PPP) mode. At present, 43.37 million farmers in the country receive the Agromet Advisories through SMS directly. KVKs of ICAR have also given link to the respective district level advisory in their web portal. A mobile App *viz.,* 'Meghdoot' has also been launched by Ministry of Earth Sciences, Government of India, to help the farmers to get the weather information including alerts and related agromet advisories specific to their districts.

Annexure I

List of 200 DAMUs where Agro-AWS is installed (covering 115 Aspirational Dist.)				
S.No	**State**	**No.**	**District**	**KVK Name**
1	**Andhra Pradesh**	9	Prakasam	KVK Prakasam (Darsai)
2			East Godavari	KVK Kalavacharla
3			*YSR Kaddappa	KVK Utukur
4			*Viziagnagaram	KVK,Rastakuntubai
5			Nellore	KVK AK Nagar
6			Kurnool	KVK Banavasivillage
7			West Godavari	KVK Venkatramannagudem
8			Krishna	KVK Garikapadu
9			Srikakulam	KVK Ambadavasla
10	**Arunachal Pradesh**	3	*Namsai	DistLohit
11			Papumpare	KVK Papumpare
12			Tawang	KVK Tawang
13	**Assam**	8	*Hailakandi	KVK Hailakandi, Chandpur
14			*Dhubri	KVK Dhubri, AAU, Bilasipara
15			*Barpeta	KVK Barpeta, Howly
16			Cachar	KVK Cachar
17			*Darrang	KVK Darrang, Mangaldoi
18			*Baksa	KVK Baksa
19			*Udalguri	KVK Udalguri, AAU, Lalpool
20			*Goalpara	KVK Goalpara, Dudhoni, Goalpara, Assam
21	**Bihar**	14	*Khagaria	KVK Khagaria
22			*Gaya	KVK Gaya
23			*Purnea	KVK Purnia(Jalalgarh)
24			East Champaran	KVK Piprakothi
25			*Begusarai	KVK Begusarai(Khodawanpur)
26			*Katihar	KVK Katihar (Tingachia)
27			*Sitamarhi	KVK Sitamarhi
28			*Sheikpura	KVK Shekhpura
29			*Nawada	KVK Kauakaul,Nawada
30			*Banka	KVK Vijaynagar
31			*Jamui	KVK Khadigram
32			*Araraia	KVK Araria
33			*Muzaffarpur	KVK Saraiya
34			*Aurangabad	KVK Aurangabad (Siris)
35	**Chattisgarh**	9	*Mahasamund	KVK Mahasamund
36			*Korba	KVK Korba
37			Jashpur	KVK Dumarbahar
38			*Narayanpur	KVK Narayanpur
39			*Bijapur	KVK Bijapur
40			*Rajnanadgaon	KVK Rajnanadgaon
41			*Kanker	KVK Kanker
42			*Dantewada	KVK Dantewada
43			Korea	KVK Korea (Salka)
44	**Goa**	2	North Goa	KVK Goa
45			South Goa	KVK Panji

46	**Gujarat**	9	Panchmahal	KVK Panchmahal
47			*Dahod	KVK Dahod
48			Amreli	KVK Amreli
49			Dang	KVK Waghai
50			*Narmada	KVK Seed multiplication farm, Dediyapada
51			Vadodra	KVK Vadodara
52			Valsad	KVK Valsad
53			Jamnagar	KVK Air force road
54			Surat	KVK CRC, Athwaline
55	**Haryana**	6	Sonipat	KVK Jagdishpur,Sonipat
56			Shikohpur	KVK Gurgaon
57			Karnal	KVK NDRI
58			Mahendragarh	KVK Mahendragarh
59			Kurukshetra	KVK Urbanstate
60			Yamunanagar	KVK Damla
61	**Himachal Pradesh**	4	*Chamba	KVK Chamba (Saru Farm)
62			Bilaspur	KVK Bilaspur
63			Sundernagar	KVK Mandi
64			Sirmaur	KVK Sirmaur (Dhulakuan)
65	**J and K**	4	*Baramula	KVK Baramula (Kunzer, Tangmarg)
66			Kathua	KVK Kathua
67			*Kupwara	KVK Kupwara
68			Reasi	KVK Reasi
69	**Jharkhand**	17	*Lohardagga	KVK Lohardaga BAU
70			*West Singhbum	KVK BAU Jagannathpur
71			*Sahibganj	KVK Sahibganj
72			*Kunthi	KVK Diyankel Village
73			*Simdega	KVK BanoSimdega
74			*Pakur	KVK Pakur
75			*Godda	KVK Godda
76			Deoghar	KVK Deoghar
77			*Chatra	KVK Chatra
78			*Palamu	KVK PalamuDaltanganj
79			*Bokaro	KVK Bokaro (Petabvar)
80			*Garhwa	KVK Garhwa
81			*Ramgarh	KVK Ramgarh
82			*Giridih	KVK GiridihBengabad
83			*Hazaribag	KVK Hazaribag
84			*Latehar	KVK LateharBalumath
85			*Gumla	KVK GumlaBishnupur
86	**Karnataka**	12	Haveri	KVK Hanumanamatti
87			Mandya	KVK, V.C.Farm, Mandya
88			Bellary	KVK Hageri
89			Chikmagalur	KVK chikmagalur
90			Kodagu	KVK Gonikoppal
91			Bagalkot	KVK Agriculture Research Station,
92			Koppal	KVK ARS Campus, Kanakgiri Road

93			*Yadgir	KVK Kawadimatti
94			Tumkur	KVK ZARS, Konehally
95			Ramnagaram	KVK Chandurayanghalli
96			Chamrajnagar	KVK Seed Farm, Hardanhally
97			Kolar	KVK Tanka Farm
98	**Kerala**	3	Malappuram	KVK Malappuram
99			Palghat	KVK Pattambi
100			Kollam	KVK Kollam
101	**Lakshadweep**	1	Kiltan	KVK, Lakshadweep
102	**Madhya Pradesh**	14	Ashoknagar	KVK Ashoknagar
103			*Singrauli	KVK Singrauli
104			Neemuch	KVK Neemuch
105			Rewa	KVK Rewa
106			Katni	KVK Katni
107			*Damoh	KVK Damoh
108			*Barwani	KVK Badwani
109			*Rajgarh	KVK Rajgarh
110			Shahdol	KVK Shahdol
111			Balaghat	KVK Badgaon
112			*Guna	KVK Guna
113			*Khandwa	KVK Khandwa
114			Shivpuri	KVK Shivpuri
115			*Chhatrapur	KVK Chhattarpur (Nowgong)
116	**Maharashtra**	10	Nagpur	KVK Nagpur
117			Palghar	KVK Thane
118			*Nandurbar	KVK Nandurbar
119			Solapur	KVK Solapur-II
120			*Osmanabad	KVK Osmanabad
121			Aurangabad	KVK Aurangabad-I
122			Bhandara	KVK Bhandara
123			*Gadchiroli	KVK Gadchiroli
124			Buldana	KVK Buldana-II
125			*Wasim	KVK Washim
126	**Manipur**	1	*Chandel	KVK Chandel
127	**Meghalaya**	2	*Ribhoi	KVK Ribhoi
128			West Khasi Hills	KVK Nongstoin
129	**Mizoram**	1	*Mamit	KVK Mamit
130	**Nagaland**	2	Mokokchung	KVK Mokokchung
131			*Kephire	KVK Kiphire
132	**New Delhi**	1	South–West District	KVK Ujwa
133	**Odisha**	10	Cuttack	KVK Cuttack (Santhapur Farm)
134			*Rayagada	KVK, Gunupur
135			Mayurbhaj	KVK Mayurnhaj
136			*Balangir	KVK Nimkana
137			Jagatsinghpur	KVK Jagatsinghpur
138			Nayagarh	KVK Panipolia
139			Ganjam	KVK Benakuda
140			*Gajapati	KVK R. Udayagiri

141			Puri	KVK Puri
142			Angul	KVK Angul
143	**Puducherry**	1	Puducherry	KVK Puducherry
144	**Punjab**	5	Ropar	KVK Ropar
145			Jalandhar	KVK Jalandhar (Nurmahal)
146			*Firozpur	KVK Ferozpur (Malwal Farm)
147			*Moga	KVK Moga (Budh Singh Wala)
148			Barnala	Krishi Vigyan Kendra, Barnala-148107
149	**Rajasthan**	9	Chittorgarh	KVK, Chittorgarh
150			Dungarpur	KVK Dungarpur
151			*Karauli	KVK Karauli
152			*Jaisalmer	KVK Jaisalmer-I
153			Hanumangarh	KVK Sangaria, Hanumangarh-I
154			Jalore	KVK Jalore
155			*Dholpur	KVK Dholpur
156			*Baran	KVK Anta, Baran
157			*Sirohi	KVK Sirohi
158	**Sikkim**	2	East Sikkim	KVK Ranipool
159			*West Sikkim	KVK Manga
160	**Tamil Nadu**	10	Cuddalore	KVK Vridhachalam
161			Pudukkottai	KVK Pudukkottai
162			*Ramanathpuram	KVK Ramnathpuram
163			*Virudhunagar	KVK Aruppukottai
164			Vellore	KVK Virinjipuram
165			Thirruvallur	KVK Tirur
166			Kancheepuram	KVK Kattupakkam
167			Dharmapuri	KVK Papparapatty
168			Salem	Krishi Vigyan Kendra, Salem
169			Tiruchirapalli	KVK Sirugamani
170	**Telangana**	4	*Adilabad	KVK Adilabad
171			Nalgonda	KVK Nalgonda (Kampasagar)
172			*Warangal	KVK Warangal (Mamnoor)
173			*Khammam	KVK Khammam (Wyra)
174	**Tripura**	1	*Dhalai	KVK Dhalai
175	**Uttar Pradesh**	17	Bhadohi	KVK Bhadohi
176			*Sonebhadra	KVK Tissuhi, Sonbhadra
177			Kannuaj	KVK Kannuaj (Anaughi), Kannauj
178			Gorakhpur	KVKBelipar, Gorakhpur
179			*Fatehpur	KVK Tharion, Fatehpur
180			Bulandsahar	KVK, Bulandsahar, Bulandshahar
181			*Chitrakot	KVK Ganivan (Via-Pahari), Chitrakoot
182			Jaunpur	KVK Jaunpur
183			Kushinagar	KVK Veg Seed Prod Farm, Kushinagar
184			Azamgarh	KVK Harbanspur, Azamgarh
185			*Siddarthnagar	KVK Sohna, Siddharthanagar
186			Gazipur	KVK P G College Ravindrapuri, Ghazipur
187			Shajahnapur	KVK Niyamatpur, Shahajahanpur

188			Baghpat	KVK Meerut Road, Baghpat
189			*Balrampur	KVK Near MotipurHarhawa, Balrampur
190			*Chandauli	KVK BichiyaAgril. Farm, Chandauli
191			Mainpuri	Krishi Vigyan Kendra, Mainpuri-205001
192	**Uttarakhand**	**3**	Almora	KVK Almora
193			Nainital	KVK Nainital (Jeolikot)
194			Pithoragarh	KVK Pithoragarh (GainaAncoli)
195	**West Bengal**	**6**	*Mursidabad	KVK Murshidabad
196			North 24Parganas	KVK Ashoknagar North 24 Parganas
197			Jalpaiguri	KVK Jalpaiguri
198			*Birbhum	RathindraKVK,Santiniketan, Bolpur
199			Purlia	KVK Purlia
200			*Maldah	KVK Ratua, Malda

* Aspirational Districts

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