

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 3652
TO BE ANSWERED ON WEDNESDAY, MARCH 18, 2015**

AUTOMATIC WEATHER STATIONS

**3652. DR. VIRENDRA KUMAR:
SHRI BIDYUT BARAN MAHATO:**

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the details of Automatic Weather Stations (AWSs) installed in the country including Jharkhand, location and State- wise;**
- (b) the extent to which these AWSs have been able to predict monsoon rainfall and extreme weather events on short to medium range time scale in the country including in Jharkhand;**
- (c) whether the Government proposes to install some more AWSs;**
- (d) if so, the details thereof and the time by which the same are likely to be installed along with the locations identified therefor; and**
- (e) the details of funds allocated/being allocated for the purpose?**

ANSWER

**MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(SHRI Y.S. CHOWDARY)**

- (a) Yes Madam. Earth System Science Organization–India Meteorological Department (ESSO-IMD) has installed 675 AWS across the country in different states including 14 AWS in the state of Jharkhand. The state-wise details of AWS installed in different states are given in Annexure-1.**
- (b) Observational data generated by various observing systems including AWS are assimilated in to global/regional/meso-scale forecast models to generate medium (3-10 days in advance)/short (1-3 days in advance)/local range (1-2 days in advance) forecasts. In addition, real time monitoring of realized weather at the local scale is carried out to issue severe weather warning.**
- (c-d) Augmentation of the observing system networks including AWS network is a continuing process that shall be taken up as per the emerging needs from time to time.**
- (e) An overall allocation of Rs. 700 crore is made for the sustenance of whole range of observing systems including AWS for the 12th plan.**

The state-wise details of AWS

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
1	PORT_BLAIR	Andaman & Nicobar	11.67	92.72
2	ADILABAD	Andhra Pradesh	19.65	78.52
3	AMADALAVALASA	Andhra Pradesh	19.12	84.67
4	ANANTPUR_AGRO	Andhra Pradesh	14.68	77.67
5	ANKAPALLI_AGRO	Andhra Pradesh	17.70	83.00
6	ASWARAOPET	Andhra Pradesh	17.24	81.10
7	BAPATLA	Andhra Pradesh	15.90	80.47
8	BHIMUNIPATTINAM	Andhra Pradesh	17.89	83.45
9	CHINTAPALLI_AGRO	Andhra Pradesh	17.87	82.34
10	DARSI	Andhra Pradesh	15.78	79.57
11	HYDERABAD	Andhra Pradesh	17.45	78.47
12	JAGTIYAL_AGRO	Andhra Pradesh	18.83	78.93
13	KADIRI	Andhra Pradesh	14.11	78.15
14	KAMPASAGAR	Andhra Pradesh	16.85	79.47
15	KARIMNAGAR	Andhra Pradesh	18.43	79.08
16	KAVALI	Andhra Pradesh	14.90	79.98
17	LAM_AGRO	Andhra Pradesh	16.35	80.43
18	MARUTERU	Andhra Pradesh	16.63	81.74
19	NANDYAL	Andhra Pradesh	15.45	78.46
20	NARSAPUR	Andhra Pradesh	16.43	81.70
21	NELLORE	Andhra Pradesh	14.45	79.97
22	PALEM	Andhra Pradesh	16.50	78.23
23	PEDDAPURAM	Andhra Pradesh	17.07	82.15
24	PERUMALLAPALLE	Andhra Pradesh	13.61	79.34
25	RAJENDRANAGAR_AGRO	Andhra Pradesh	17.01	78.97
26	RUDRUR	Andhra Pradesh	18.56	77.88
27	SANGAREDDY_AGRO	Andhra Pradesh	17.62	74.07
28	SHAR	Andhra Pradesh	13.70	80.22
29	TANDUR	Andhra Pradesh	17.21	77.58
30	TIRUMALA	Andhra Pradesh	13.07	79.37
31	TIRUPATI_AGRO	Andhra Pradesh	13.63	79.73
32	UTUKURU	Andhra Pradesh	14.43	78.80
33	VIZIANAGRAM	Andhra Pradesh	18.12	83.42
34	VUYYURU	Andhra Pradesh	16.36	80.84
35	WARANGAL	Andhra Pradesh	18.01	79.60
36	YELLAMANCHILLI	Andhra Pradesh	17.55	82.82
37	BOMDILA	Arunachal	27.42	95.85
38	ALONG	Arunachal Pradesh	28.20	94.80
39	ANINI_AGRO	Arunachal Pradesh	28.78	95.88
40	BASAR_AGRO	Arunachal Pradesh	27.9947	94.7039

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
41	CHANGLANG	Arunachal Pradesh	27.13	95.72
42	DAPORIZO	Arunachal Pradesh	27.80	94.20
43	DEOMALI_AGRO	Arunachal Pradesh	27.18	95.45
44	MECHUKA	Arunachal Pradesh	28.40	94.10
45	NAHARLAGUN	Arunachal Pradesh	27.10	93.60
46	PASSIGHAT	Arunachal Pradesh	28.10	95.37
47	ROING	Arunachal Pradesh	28.14	95.84
48	SEPPA	Arunachal Pradesh	27.32	93.00
49	TAWANG	Arunachal Pradesh	27.57	91.87
50	TEZU_AGRO	Arunachal Pradesh	27.92	96.17
51	TUTING	Arunachal Pradesh	28.90	94.80
52	ZIRO	Arunachal Pradesh	27.40	93.80
53	BARPETA	Assam	26.48	90.90
54	BIHUPURIA	Assam	26.97	93.87
55	BONGAIGAON	Assam	26.35	90.65
56	DHEMAJI	Assam	27.47	94.55
57	DIBRUGARH	Assam	27.467	95.02
58	DIPHU_AGRO	Assam	25.87	93.43
59	GOALPARA	Assam	26.16	90.63
60	GOLAGHAT	Assam	26.51	93.96
61	GOSSAIGAON_AGRO	Assam	26.44	89.94
62	GUWAHATI	Assam	26.10	91.57
63	HAFLONG	Assam	25.18	93.01
64	HAILAKANDI	Assam	24.60	92.55
65	JORHAT_AGRO	Assam	26.72	94.18
66	KAJALGAON	Assam	26.52	90.48
67	KARIMGANJ_AGRO	Assam	24.85	92.30
68	KHANAPARA	Assam	26.12	91.82
69	KOKRAGHAR	Assam	26.467	90.283
70	MANGALDAI	Assam	26.42	92.02
71	MORIGAON	Assam	26.24	92.29
72	MUSHALPUR	Assam	26.65	91.33
73	NALBARI	Assam	26.27	91.32
74	SHILLONGANI_AGRO	Assam	26.351	92.633
75	SIBSAGAR	Assam	26.95	94.62
76	SILCHAR	Assam	24.80	92.78
77	SONITPUR_AGRO	Assam	26.71	93.13
78	TINSUKIA	Assam	27.48	95.31
79	UDALGURI	Assam	26.72	92.08
80	AGWANPUR_AGRO	Bihar	25.91	86.55
81	ARIARI	Bihar	25.07	85.85

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
82	BANKA_AGRO	Bihar	24.85	86.90
83	BEGUSARAI	Bihar	25.65	86.02
84	BHABUA	Bihar	25.03	85.60
85	BHAGALPUR_AGRO	Bihar	25.23	87.03
86	BHOJPUR_AGRO	Bihar	25.00	84.01
87	BUXAR	Bihar	23.55	83.96
88	CHANPURABASATH	Bihar	26.00	85.01
89	DARBHANGA	Bihar	26.38	85.73
90	GANDHAR	Bihar	25.22	85.13
91	HARNAUT	Bihar	25.35	85.63
92	JAMUI_AGRO	Bihar	24.91	86.21
93	KATI HAR	Bihar	25.52	87.57
94	MADHEPURA	Bihar	25.92	86.80
95	MADHOPUR	Bihar	26.75	84.68
96	MALPUR	Bihar	24.80	85.04
97	MUNGER	Bihar	25.37	86.48
98	MUZZAFFARPUR	Bihar	26.03	85.14
99	NAWADA	Bihar	24.87	85.53
100	PATNA	Bihar	25.01	86.00
101	PUPARI	Bihar	26.54	85.72
102	PUSA_BIHAR_AGRO	Bihar	25.98	85.66
103	SASARAM	Bihar	24.95	84.00
104	SHEOHAR	Bihar	26.51	85.28
105	SIPAYA	Bihar	26.58	84.38
106	SIWAN	Bihar	26.21	84.35
107	VAISALI	Bihar	25.73	85.23
108	CHANDIGARH	Chandigarh	30.74	76.73
109	RAIPUR	Chhattisgarh	21.22	81.67
110	AMBIKAPUR_AGRO	Chhattisgarh	23.09	83.14
111	BIJAPUR	Chhattisgarh	18.80	80.80
112	BILASPUR(CHATTISGARH)	Chhattisgarh	22.09	82.17
113	DANTEWADA	Chhattisgarh	18.90	81.35
114	DHAMTARI	Chhattisgarh	20.66	81.53
115	DURG	Chhattisgarh	21.97	81.24
116	JAGDALPUR_AGRO	Chhattisgarh	19.09	81.96
117	JANJGIR	Chhattisgarh	22.6	82.13
118	JASHPUR	Chhattisgarh	22.88	84.56
119	KANKER	Chhattisgarh	20.25	81.50
120	KAWARDHA	Chhattisgarh	22.58	81.13
121	KORBA	Chhattisgarh	22.37	82.733
122	KORIYA	Chhattisgarh	23.30	82.56
123	MAHASAMUND	Chhattisgarh	21.103	82.083

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
124	NARAYANPUR	Chhattisgarh	19.7	81.7
125	RAIGARH	Chhattisgarh	21.88	83.40
126	RAIPUR_AGRO	Chhattisgarh	21.23	81.70
127	RAJNANDGAON	Chhattisgarh	21.1	81.034
128	DAMAN	Daman and Diu	20.40	72.833
129	AKSHARDHAM_DELHI	Delhi	28.62	77.27
130	AYANAGAR	Delhi	28.48	77.13
131	DELHI UNIVERSITY	Delhi	28.68	77.20
132	DPS INDIRPURAM	Delhi	28.63	77.37
133	JAFARPUR DELHI	Delhi	28.58	76.90
134	MUNGESHPUR	Delhi	28.80	76.97
135	NAJAFGARH	Delhi	28.63	77.00
136	NARELA	Delhi	28.82	77.04
137	NCMRWF	Delhi	28.63	77.36
138	PITAMPURA	Delhi	28.70	77.15
139	PUSA_DELHI_AGRO	Delhi	28.63	77.15
140	SPORTS COMPLEX DELHI	Delhi	28.66	77.31
141	DIU	Diu and Daman	20.72	70.92
142	ELA	Goa	15.48	73.91
143	GOA	Goa	15.42	73.77
144	AHMEDABAD	Gujarat	23.07	72.62
145	AHWA	Gujarat	20.76	73.69
146	ANAND	Gujarat	22.58	72.92
147	ARNEJ_AGRO	Gujarat	22.58	72.28
148	BACHAU_AGRO	Gujarat	23.303	70.36
149	BHUJ	Gujarat	23.25	69.67
150	BILODARA	Gujarat	22.73	72.88
151	DAHEJ	Gujarat	21.73	72.55
152	DAHOD	Gujarat	22.88	74.23
153	DANTIWADA_AGRO	Gujarat	24.32	72.30
154	DAYAPAR	Gujarat	23.37	68.54
155	DHARAMPUR	Gujarat	20.54	73.16
156	DWARKA	Gujarat	22.37	69.07
157	GANDHINAGAR	Gujarat	23.27	72.65
158	GODHRA	Gujarat	22.80	73.22
159	IDAR	Gujarat	23.83	73.00
160	JAKHAU	Gujarat	23.25	68.60
161	JUNAGARH_AGRO	Gujarat	21.50	70.44
162	KADINAR	Gujarat	20.80	70.70
163	KANDLA	Gujarat	23.15	70.22
164	KUTCH_MANDVI	Gujarat	22.82	69.27
165	MAHUVA	Gujarat	21.07	71.77

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
166	MAKTAMPUR_AGRO	Gujarat	21.7	73.01
167	MEHSANA	Gujarat	23.6	72.4
168	NAVASARI_AGRO	Gujarat	20.92	72.89
169	PALANPUR	Gujarat	24.17	72.43
170	PATAN	Gujarat	23.86	72.13
171	RAJKOT	Gujarat	22.30	70.77
172	RAJPIPLA	Gujarat	21.86	73.52
173	RANAVAV	Gujarat	21.36	69.75
174	SURAT	Gujarat	21.144	72.75
175	SURENDRANAGAR	Gujarat	22.73	71.62
176	TARGHADIA_AGRO	Gujarat	22.34	70.91
177	VADODARA	Gujarat	22.36	73.16
178	VERAVAL	Gujarat	21.12	70.12
179	VYARA	Gujarat	21.11	73.39
180	AMBALA	Haryana	30.35	76.87
181	BALSAMAND	Haryana	29.068	75.476
182	BAWAL	Haryana	28.08	76.59
183	BHIWANI	Haryana	28.80	76.13
184	BOPANI	Haryana	28.23	77.18
185	DAMLA	Haryana	30.1	77.28
186	FARIDABAD	Haryana	28.3278	77.2467
187	FATHEHABAD	Haryana	29.52	75.50
188	GURGAON	Haryana	28.42	77.00
189	HISSAR_AGRO	Haryana	29.13	75.70
190	JAGDISHPUR	Haryana	28.9923	77.0090
191	JHAJJAR	Haryana	28.6110	76.6510
192	KAITHAL	Haryana	29.78	76.4
193	KARNAL	Haryana	29.70	77.03
194	KAUL_AGRO	Haryana	29.86	76.66
195	KURUKSHETRA	Haryana	29.58	76.51
196	MAHENDRAGARH	Haryana	28.28	76.15
197	MANDKOLA	Haryana	28.1	77.0
198	NUH	Haryana	28.11	77.00
199	PANCHKULA	Haryana	30.73	76.80
200	PANDUPINDARA	Haryana	29.18	76.22
201	ROHTAK	Haryana	28.8836	76.6190
202	SADALPUR	Haryana	29.3	75.45
203	SIRSA	Haryana	29.54	75.04
204	UCHANI	Haryana	29.68	77.0
205	UJHA PANIPAT	Haryana	29.38	77.0
206	BAJAURA	Himachal Pradesh	31.50	77.09
207	BILASPUR	Himachal Pradesh	31.35	76.7525
208	CHELSEA	Himachal Pradesh	31.531	77.1120

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
209	DALHOUSIE ALHA	Himachal Pradesh	32.31	76.00
210	DHARAMSHALA	Himachal Pradesh	32.1994	76.3249
211	HAMIRPUR	Himachal Pradesh	31.40	76.32
212	KASAULI	Himachal Pradesh	30.90444	76.96
213	KEYLONG	Himachal Pradesh	32.34	77.02
214	KOTKHAI	Himachal Pradesh	31.117	77.533
215	KUFRI	Himachal Pradesh	31.1	77.27
216	KUKUMSERI_AGRO	Himachal Pradesh	32.70	76.69
217	MANDI	Himachal Pradesh	31.43	76.57
218	MASHOBRA	Himachal Pradesh	31.12	77.22
219	NAHAN	Himachal Pradesh	30.55	77.35
220	NARKANDA	Himachal Pradesh	31.1508	77.2746
221	NAUNI_AGRO	Himachal Pradesh	30.89916	76.96
222	PALAMPUR_AGRO	Himachal Pradesh	32.0552	76.3254
223	RECKON PEO	Himachal Pradesh	31.32	78.16
224	SAINJ	Himachal Pradesh	31.46	77.22
225	SEOBAGH_AGRO	Himachal Pradesh	31.5858	77.0748
226	SHIMLA_CPRI	Himachal Pradesh	31.1	77.17
227	UDAIPUR	Himachal Pradesh	32.3521	76.0608
228	UNA	Himachal Pradesh	31.45	76.26
229	ANANTNAG	Jammu and Kashmir	33.669	75.172
230	BARAMULLAH	Jammu and Kashmir	34.35	74.40
231	CHATHA_AGRO	Jammu and Kashmir	32.65	74.80
232	GOVINDPURA	Jammu and Kashmir	33.22	75.26
233	GULMARG	Jammu and Kashmir	34.03	74.35
234	HARRAN	Jammu and Kashmir	34.06	74.71
235	KAWA	Jammu and Kashmir	32.90	75.167
236	KULGAM_AGRO	Jammu and Kashmir	33.64	74.94
237	LEH_AGRO	Jammu and Kashmir	33.97	71.6994
238	MALANGPURA	Jammu and Kashmir	33.888	74.9808
239	RAJHANI	Jammu and Kashmir	32.37	75.55
240	RAMBAGH	Jammu and Kashmir	34.05	74.80
241	SAMBA	Jammu and Kashmir	32.57	75.12
242	SHOPIAN	Jammu and Kashmir	33.587	74.872
243	SRINAGAR_AGRO	Jammu and Kashmir	34.14	74.87
244	BOKARO	Jharkhand	23.78	85.88
245	CHATRA	Jharkhand	24.20	84.85
246	DARISAI_AGRO	Jharkhand	22.69	86.43
247	DEOGHAR	Jharkhand	24.49	86.66
248	DHANBAD	Jharkhand	23.78	86.42
249	DUMKA_AGRO	Jharkhand	24.25	87.24

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
250	GARWA	Jharkhand	24.16	83.80
251	GIRIDIH	Jharkhand	24.20	86.30
252	GODDA	Jharkhand	24.83	87.20
253	GUMLA	Jharkhand	23.07	84.53
254	KODERMA	Jharkhand	24.43	85.53
255	LOHARDAGA	Jharkhand	23.53	84.81
256	PAKUR_AGRO	Jharkhand	24.50	87.81
257	RANCHI	Jharkhand	23.32	85.32
258	RANCHI_AGRO	Jharkhand	23.43	85.30
259	SAHEBGANJ	Jharkhand	25.23	86.65
260	AGUMBE	Karnataka	13.50	75.10
261	BAGALKOT_AGRO	Karnataka	16.15	75.60
262	BANGALORE	Karnataka	12.97	77.57
263	BELLARY	Karnataka	15.15	76.85
264	BHAVIKERE	Karnataka	13.72	75.72
265	BIDAR	Karnataka	17.92	77.52
266	BRAHMAVAR	Karnataka	13.35	74.75
267	CHAMRAJNAGAR	Karnataka	11.91	76.93
268	CHIKMAGALUR	Karnataka	13.34	75.80
269	CHIKNAYAKANHALLI	Karnataka	13.663	76.916
270	DEVIHOSUR_AGRO	Karnataka	14.78	75.33
271	DHARWARD_AGRO	Karnataka	15.48	74.98
272	GADAG	Karnataka	15.42	75.63
273	GULBARGA	Karnataka	17.35	76.80
274	HONAWAR	Karnataka	14.283	74.450
275	KANABARGI (BELGAUM)	Karnataka	15.9	75.55
276	KGF	Karnataka	12.95	78.25
277	MADIKERI	Karnataka	12.42	75.73
278	MAGADI_AGRO	Karnataka	12.97	77.18
279	MANGALORE	Karnataka	12.94	74.82
280	NAVILE	Karnataka	13.96	75.56
281	PAVAGADA	Karnataka	14.03	77.27
282	RAICHUR_AGRO	Karnataka	16.18	77.32
283	SIRSI_AGRO	Karnataka	14.611	74.846
284	SUTTUR	Karnataka	12.15	76.80
285	TIDAGUNDI_AGRO	Karnataka	16.98	75.75
286	AMBALAVAYAL_AGRO	Kerala	11.0617	76.21
287	KAYAMKULAM	Kerala	9.17	76.52
288	KOTTANKARA	Kerala	9.00	76.72
289	KOZHIKODE	Kerala	11.26	75.77
290	KUDALLUR_AGRO	Kerala	12.65	74.96

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
291	KUMARAKOM_AGRO	Kerala	9.62	76.42
292	MANKARA_AGRO	Kerala	10.77	76.70
293	MUNNAR	Kerala	10.08	77.05
294	NILAMBUR	Kerala	11.28	76.23
295	PILICODE	Kerala	12.20	75.17
296	TAVANUR	Kerala	10.77	75.00
297	THIRUVANANTHAPURAM	Kerala	8.47	76.95
298	VAZATHOPE	Kerala	09.834	76.950
299	VELLANIKKARA_AGRO	Kerala	10.53	76.28
300	VELLAYANI_AGRO	Kerala	8.43	76.99
301	MINICOY	Lakshadweep	8.30	73.15
302	ALIRAJPUR	Madhya Pradesh	22.314	74.353
303	ANUPPUR	Madhya Pradesh	23.12	81.70
304	ASHOKNAGAR	Madhya Pradesh	24.5972	77.7500
305	BALAGHAT	Madhya Pradesh	21.81	80.18
306	BARWANI	Madhya Pradesh	22.03	74.97
307	BETUL	Madhya Pradesh	21.86	77.937
308	BHIND	Madhya Pradesh	26.5727	78.81
309	BHOPAL	Madhya Pradesh	23.28	77.35
310	BURHANPUR	Madhya Pradesh	21.283	76.198
311	CHHATARPUR	Madhya Pradesh	25.03	79.50
312	CHHINDWARA_AGRO	Madhya Pradesh	22.056	78.94
313	DAMOH	Madhya Pradesh	23.82	79.40
314	DATIA	Madhya Pradesh	25.6880	78.4419
315	DEWAS	Madhya Pradesh	22.96	76.04
316	DHAR	Madhya Pradesh	22.60	75.3
317	DINDORI	Madhya Pradesh	22.94	81.08
318	GUNA	Madhya Pradesh	24.6491	77.3183
319	GWALIOR	Madhya Pradesh	26.23	78.25
320	HARDA	Madhya Pradesh	22.443	77.03
321	HOSHANGABAD	Madhya Pradesh	22.77	77.77
322	HOSHANGABAD_AGRO	Madhya Pradesh	22.69	77.74
323	INDORE	Madhya Pradesh	22.72	75.80
324	INDORE_AGRO	Madhya Pradesh	22.70	75.89
325	JABALPUR_AGRO	Madhya Pradesh	23.21	79.96
326	JHABUA_AGRO	Madhya Pradesh	22.76	74.59
327	KATNI	Madhya Pradesh	23.74	80.32
328	KHANDWA	Madhya Pradesh	21.81	76.37
329	KHARGONE_AGRO	Madhya Pradesh	21.82	75.62
330	MANDLA	Madhya Pradesh	22.6	80.3
331	MANDSAUR	Madhya Pradesh	24.06	75.10

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
332	MORENA_AGRO	Madhya Pradesh	26.4772	77.9866
333	NARSINGHPUR	Madhya Pradesh	22.94	79.22
334	NEEMUCH	Madhya Pradesh	24.42	74.8708
335	PANNA	Madhya Pradesh	24.73	80.21
336	RAISEN	Madhya Pradesh	23.34	77.77
337	RAJGARH	Madhya Pradesh	24.00	76.73
338	RATLAM	Madhya Pradesh	23.444	75.044
339	REWA	Madhya Pradesh	24.5	81.3
340	SAGAR	Madhya Pradesh	23.83	78.69
341	SATNA	Madhya Pradesh	24.57	80.82
342	SEHORE_AGRO	Madhya Pradesh	23.18	77.06
343	SEONI	Madhya Pradesh	22.0683	79.5488
344	SHAHDOL	Madhya Pradesh	23.28	81.33
345	SHAJAPUR	Madhya Pradesh	23.4264	76.2755
346	SHEOPUR	Madhya Pradesh	25.67	76.69
347	SHIVPURI	Madhya Pradesh	25.3916	77.6033
348	SIDHI	Madhya Pradesh	24.41	81.86
349	SINGRAULI	Madhya Pradesh	24.07	82.61
350	TIKAMGARH_AGRO	Madhya Pradesh	24.72	78.81
351	UJJAIN	Madhya Pradesh	23.17	75.80
352	UMARIA	Madhya Pradesh	23.525	80.84
353	VIDISHA	Madhya Pradesh	23.515	77.81
354	AHMEDNAGAR	Maharashtra	19.09	74.75
355	AKOLA_AGRO	Maharashtra	20.70	77.65
356	AMBEJOGAI	Maharashtra	18.72	76.36
357	AMRAOTI	Maharashtra	20.94	77.78
358	AURANGABAD	Maharashtra	19.36	75.95
359	BHANDARA	Maharashtra	21.16	79.65
360	BULDHANA	Maharashtra	20.53	76.19
361	CHOPDA	Maharashtra	21.22	75.69
362	DAPOLI	Maharashtra	17.75	73.42
363	DEVGAD	Maharashtra	16.38	73.35
364	DHULE	Maharashtra	20.90	74.80
365	GADCHIROLI	Maharashtra	20.17	79.98
366	GONDIA	Maharashtra	21.49	80.15
367	HINGOLI	Maharashtra	19.73	77.15
368	JALGAON	Maharashtra	21.02	75.53
369	JALNA	Maharashtra	19.85	75.87
370	KARJAT	Maharashtra	18.97	73.04
371	KOLHAPUR_AGRO	Maharashtra	16.67	74.16
372	KOPARGAON	Maharashtra	19.56	74.97
373	LATUR	Maharashtra	18.40	76.56
374	MAHABALESHWAR	Maharashtra	17.98	73.70

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
375	MALEGAON	Maharashtra	20.143	74.794
376	MULDE_AGRO	Maharashtra	16.00	73.70
377	MUMBAI_COLABA	Maharashtra	18.90	72.82
378	MUMBAI_SANTA_CRUZ	Maharashtra	19.12	72.85
379	MURUD	Maharashtra	18.30	72.97
380	NAGPUR	Maharashtra	21.10	79.05
381	NANDED	Maharashtra	19.03	77.45
382	NANDURBAR	Maharashtra	21.37	74.23
383	NASIK	Maharashtra	20.02	73.68
384	NAVAPUR	Maharashtra	21.16	73.79
385	OSMANABAD	Maharashtra	18.11	76.02
386	PALGHAR	Maharashtra	19.73	72.76
387	PARBHANI_AGRO	Maharashtra	19.23	76.79
388	PASHAN_AGRO ASTRA AWS	Maharashtra	18.53	73.80
389	PASHAN_PUNE	Maharashtra	18.52	73.85
390	PUNE	Maharashtra	18.52	73.85
391	RAHURI	Maharashtra	19.40	74.65
392	RAJGURUNAGAR	Maharashtra	18.52	73.85
393	SATARA	Maharashtra	17.69	74.02
394	SHIRDI_AGRO	Maharashtra	17.69	74.02
395	SINDEWAHI_AGRO	Maharashtra	22.30	79.67
396	SOLAPUR	Maharashtra	17.67	75.92
397	TALEGAON	Maharashtra	18.33	73.79
398	THANE	Maharashtra	19.18	72.98
399	WARDHA	Maharashtra	20.78	78.59
400	WASHIM	Maharashtra	20.13	77.13
401	YEOTMAL	Maharashtra	20.39	78.11
402	BISHENPUR	Manipur	24.6158	93.7611
403	CHANDEL	Manipur	24.35	94.00
404	CHURACHANDPUR	Manipur	24.3566	93.7011
405	IMPHAL_AGRO	Manipur	24.82	93.92
406	JIRIBAM	Manipur	24.7966	93.1328
407	POROMPAT	Manipur	24.807	93.960
408	SENAPATI	Manipur	25.27	94.02
409	TAMENGLONG	Manipur	24.99	93.5
410	THOUBAL	Manipur	24.61	94.02
411	UKHRUL	Manipur	25.0908	94.3567
412	BAGHMARA	Meghalaya	25.20	90.63
413	JOWAI	Meghalaya	25.454	92.2069
414	NONGSTOIN	Meghalaya	25.52	91.27
415	SHILLONG	Meghalaya	25.56	91.86

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
416	TURA	Meghalaya	25.48	90.20
417	UMIAM_AGRO	Meghalaya	25.68	91.92
418	WILLIAMNAGAR	Meghalaya	25.50	90.58
419	AIZWAL	Mizoram	23.83	92.74
420	CHAMPHAI	Mizoram	23.48	93.30
421	KOLASIB_AGRO	Mizoram	24.208	92.675
422	LOWNGTLAI	Mizoram	22.5055	92.895
423	LUNGLEI	Mizoram	22.95	92.93
424	MAMIT	Mizoram	23.95	92.49
425	SAIHA	Mizoram	22.48	92.98
426	SERCHIP	Mizoram	23.33	92.83
427	DIMAPUR	Nagaland	26.80	94.70
428	JHARNAPANI_AGRO	Nagaland	25.7564	93.84
429	KIPHIRE	Nagaland	25.88	94.78
430	KOHIMA	Nagaland	25.65	94.12
431	MOKOKCHUNG_AGRO	Nagaland	26.31	94.53
432	PEREN	Nagaland	25.563	93.6722
433	PHEK	Nagaland	25.70	94.47
434	SECHU	Nagaland	25.70	94.03
435	WOKHA_AGRO	Nagaland	26.08	94.25
436	ZENHEBOTO_AGRO	Nagaland	26.02	94.53
437	NEW_DELHI	New Delhi	28.62	77.17
438	ANGUL	Orissa	20.83	85.1
439	BARGARH	Orissa	21.33	83.62
440	BASUDEVPUR	Orissa	21.13	86.75
441	BAVANIPATNA_AGRO	Orissa	19.92	83.16
442	BERHAMPUR	Orissa	19.30	84.80
443	BHADRAK	Orissa	21.1	86.50
444	BHUBANESHWAR_AGRO	Orissa	20.26	85.81
445	BOLANGIR	Orissa	20.01	83.01
446	BONAIGARH	Orissa	21.83	84.97
447	BOUDH	Orissa	20.83	84.33
448	BRAMHAGIRI	Orissa	19.80	85.67
449	CHANDIPUR	Orissa	21.45	87.00
450	CHIPLIMA_AGRO	Orissa	21.36	83.88
451	CUTTACK_AWS	Orissa	20.46	85.90
452	DEOGARH	Orissa	21.54	84.72
453	G-UDAIGIRI_AGRO	Orissa	20.00	84.01
454	GUNPUR	Orissa	19.00	83.01
455	JAGATSINGHPUR	Orissa	20.23	86.18
456	JAJPUR	Orissa	20.84	86.32

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
457	JHARSUGUDA	Orissa	21.89	84.03
458	KEIRI_AGRO	Orissa	22.03	84.05
459	KENDRAPARA	Orissa	20.52	86.43
460	KEONJHAR_AGRO	Orissa	21.61	85.56
461	KHURDAH-BHUBNESHWAR	Orissa	20.25	85.82
462	KORAPUT	Orissa	18.81	82.71
463	MAHISAPAT_AGRO	Orissa	20.61	85.58
464	MALKANGIRI_AGRO	Orissa	18.35	81.88
465	NAURANGAPUR	Orissa	19.25	82.54
466	NAWAPADA	Orissa	20.82	82.55
467	NAYAGARH	Orissa	20.12	85.08
468	NIMPARA	Orissa	20.05	86.10
469	PARLAKIMIDI	Orissa	18.01	83.78
470	PURI	Orissa	19.80	85.83
471	RAMBHA	Orissa	19.50	85.07
472	RANITAL_AGRO	Orissa	21.13	86.57
473	SHYAMAKHUNTA	Orissa	21.93	86.68
474	SIMILIDUDA	Orissa	18.01	82.01
475	PONDICHERRY	Pondicherry	11.95	79.82
476	AMRITSAR	Punjab	31.63	74.83
477	BADI-KARORAN	Punjab	30.79	76.81
478	BALACHAR_AGRO	Punjab	31.09	76.38
479	BARNALA	Punjab	30.36	75.53
480	BHATINDA_AGRO	Punjab	30.19	74.95
481	CHANDIGARH	Punjab	30.73	76.87
482	FARIDKOT_AGRO	Punjab	30.67	74.74
483	FATEHGARH SAHIB	Punjab	30.62	76.41
484	FEROZPUR	Punjab	30.91	74.66
485	GURDASPUR_AGRO	Punjab	32.05	75.42
486	HOSHIARPUR	Punjab	31.38	76.024
487	JALANDHAR	Punjab	31.32	75.30
488	KAPURTALA	Punjab	31.32	75.32
489	KAPURTHALA	Punjab	31.39	75.36
490	LUDHIANA_AGRO	Punjab	30.55	75.51
491	MANSA_AWS	Punjab	30.15	75.41
492	MOGA	Punjab	30.756	75.163
493	MUKTASAR	Punjab	30.45	74.51
494	NAWASHAHAR	Punjab	31.13	76.12
495	PATIALA	Punjab	30.36	76.45
496	RAUNI	Punjab	30.60	76.10
497	ROOPNAGAR	Punjab	30.975	76.517

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
498	SALERN	Punjab	31.60	75.98
499	SAMARALA	Punjab	30.78	75.84
500	SANGRUR	Punjab	30.20	75.88
501	TARAN TARAN	Punjab	31.37	74.97
502	AJMER	Rajasthan	26.42	74.62
503	ALWAR	Rajasthan	27.53	76.60
504	ANTA	Rajasthan	25.10	76.19
505	BANSWARA	Rajasthan	23.55	74.44
506	BANSWARA_AGRO	Rajasthan	23.51	74.38
507	BARAN	Rajasthan	25.11	76.47
508	BARMER	Rajasthan	25.75	71.40
509	BHARATPUR	Rajasthan	27.22	77.50
510	BHARATPUR_AGRO	Rajasthan	27.20	77.46
511	BHILWARA	Rajasthan	25.36	74.63
512	BIKANER	Rajasthan	28.00	73.50
513	BIKANER_AGRO	Rajasthan	28.084	73.35
514	BUNDI	Rajasthan	25.41	75.65
515	CHITTORGARH	Rajasthan	24.90	74.61
516	CHURU	Rajasthan	28.28	75.12
517	DAUSA	Rajasthan	26.90	76.35
518	DHOLPUR	Rajasthan	26.72	77.89
519	DUNGARPUR	Rajasthan	23.86	73.86
520	FATEHPUR_AGRO	Rajasthan	27.93	74.98
521	GANGANAGAR	Rajasthan	29.49	73.50
522	HANUMANGARH	Rajasthan	29.55	74.35
523	JAIPUR	Rajasthan	26.82	75.78
524	JAIPUR_AGRO	Rajasthan	26.9	75.8
525	JAISALMER	Rajasthan	26.90	70.92
526	JALORE	Rajasthan	25.38	72.50
527	JHALAWAR	Rajasthan	24.58	76.13
528	JHUNJUNU	Rajasthan	28.32	75.57
529	JODHPUR	Rajasthan	26.30	73.02
530	JODHPUR_AGRO	Rajasthan	26.26	72.99
531	KARALI	Rajasthan	26.55	77.00
532	KOTA	Rajasthan	25.12	75.93
533	MOUNT ABU	Rajasthan	24.58	72.70
534	NAGAU	Rajasthan	27.15	73.78
535	PALI	Rajasthan	25.79	73.30
536	PILANI	Rajasthan	28.35	75.58
537	PRATAPGARH	Rajasthan	24.03	74.76
538	RAJSAMAND	Rajasthan	25.0286	73.89
539	SAWAI MADHOPUR	Rajasthan	26.07	76.37
540	SIKAR	Rajasthan	27.58	75.13

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
541	SRIGANGANAGAR_AGRO	Rajasthan	29.93	73.88
542	TONK	Rajasthan	26.16	75.78
543	UDAIPUR_AGRO	Rajasthan	24.57	73.70
544	GANGTOK	Sikkim	27.33	88.62
545	GYALSING	Sikkim	27.28	88.23
546	MANGAN	Sikkim	27.50	88.53
547	NAMCHI	Sikkim	27.15	88.40
548	ADHUTURAI_AGRO	Tamil Nadu	11.00	79.46
549	ADIRAMAPATTINAM	Tamil Nadu	10.35	79.39
550	ARIYALUR	Tamil Nadu	11.13	79.07
551	CHENNAI	Tamil Nadu	13.07	80.25
552	CHIDAMBARAM	Tamil Nadu	11.39	79.72
553	COIMBTORE_AGRO	Tamil Nadu	11.01	76.94
554	COONOOR	Tamil Nadu	11.33	76.80
555	ENNORE PORT	Tamil Nadu	13.25	80.31
556	HOSUR_AWS	Tamil Nadu	12.71	77.81
557	KALAVAI	Tamil Nadu	12.92	79.40
558	KARAIKAL	Tamil Nadu	10.92	79.82
559	KOVILPATTI_AGRO	Tamil Nadu	9.20	77.88
560	MADHAVARAM_AGRO	Tamil Nadu	13.15	80.23
561	MAILAM	Tamil Nadu	13.62	80.62
562	NAMAKKAL_AGRO	Tamil Nadu	11.15	78.15
563	NEYVELI	Tamil Nadu	11.62	79.53
564	NEYYOOR	Tamil Nadu	8.17	77.27
565	OOTY_AGRO	Tamil Nadu	11.37	76.63
566	PAIYUR_AGRO	Tamil Nadu	12.38	78.21
567	PECHIPARAI_AGRO	Tamil Nadu	8.43	77.30
568	PERAMBALUR	Tamil Nadu	11.22	78.87
569	PERIAKULAM	Tamil Nadu	10.117	77.583
570	THIRUCHENDUR	Tamil Nadu	8.50	79.17
571	TIRUNELVELI	Tamil Nadu	8.73	77.70
572	TUTICORIN PORT	Tamil Nadu	8.75	78.17
573	VEDASANDUR	Tamil Nadu	10.12	78.97
574	VIRUDHUNAGAR	Tamil Nadu	09.550	77.934
575	AD NAGAR_AGRO	Tripura	23.80	91.27
576	GOKULPUR	Tripura	23.53	91.46
577	KAMALPUR	Tripura	24.18	91.82
578	KHOWAI	Tripura	24.07	91.61
579	AGRA	Uttar Pradesh	27.17	78.03
580	AKBARPUR	Uttar Pradesh	26.43	82.57
581	ALIGARH	Uttar Pradesh	27.90	78.07

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
582	ALLAHABAD_AGRO	Uttar Pradesh	25.41	81.85
583	AURREIYA	Uttar Pradesh	26.55	79.55
584	BADAUN	Uttar Pradesh	28.01	79.11
585	BALLIA	Uttar Pradesh	25.92	84.13
586	BAREILLY	Uttar Pradesh	28.333	79.417
587	BASTI	Uttar Pradesh	26.79	82.72
588	BHADOHI	Uttar Pradesh	25.21	82.27
589	BHARAICH_AGRO	Uttar Pradesh	27.60	81.58
590	BHARARI_AGRO	Uttar Pradesh	25.53	78.40
591	BHINGA	Uttar Pradesh	27.71	81.91
592	BULANDSAHAR	Uttar Pradesh	28.39	77.83
593	DEORIA	Uttar Pradesh	26.48	83.77
594	ETAH	Uttar Pradesh	27.55	78.65
595	ETAWA	Uttar Pradesh	26.78	78.98
596	FAIZABAD_AGRO	Uttar Pradesh	26.54	81.83
597	FATEHPUR	Uttar Pradesh	25.93	80.80
598	FURSATGANJ	Uttar Pradesh	26.25	81.37
599	GONDA	Uttar Pradesh	26.127	81.94
600	GORAKHPUR_AWS	Uttar Pradesh	26.77	83.43
601	HATHARAS	Uttar Pradesh	27.58	77.98
602	JAUNPUR	Uttar Pradesh	25.72	82.68
603	JHANSI	Uttar Pradesh	25.43	78.57
604	KANNAUJ	Uttar Pradesh	27.03	79.92
605	KANPUR	Uttar Pradesh	26.42	80.37
606	KANPURDEHAT	Uttar Pradesh	26.33	79.97
607	KARWI CHITRKOOT	Uttar Pradesh	25.17	80.91
608	KHALILABAD	Uttar Pradesh	26.78	83.1
609	KHUSHINAGAR	Uttar Pradesh	26.85	83.95
610	KOKHRAJ	Uttar Pradesh	25.35	81.30
611	LALITPUR	Uttar Pradesh	24.68	78.40
612	LUCKNOW	Uttar Pradesh	26.87	80.92
613	MAHARAJGANJ	Uttar Pradesh	27.14	83.53
614	MAHOBA	Uttar Pradesh	25.17	79.51
615	MAINPURI	Uttar Pradesh	27.22	79.03
616	MATHURA	Uttar Pradesh	27.50	77.67
617	MAU	Uttar Pradesh	25.92	83.56
618	MEERUT	Uttar Pradesh	28.9917	77.7010
619	MIRDHA	Uttar Pradesh	25.87	84.13
620	PACHPEDWA_AGRO	Uttar Pradesh	27.55	82.64
621	PALIAKALAN	Uttar Pradesh	28.45	80.57
622	PILIBHIT	Uttar Pradesh	28.65	79.80
623	PIPRADAH_AGRO	Uttar Pradesh	25.17	82.60
624	RAMPUR_AWS	Uttar Pradesh	28.82	79.03

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
625	RANI_CHAWRI	Uttar Pradesh	30.20	78.52
626	SIDHARTHANAGAR	Uttar Pradesh	27.27	83.07
627	SULTANPUR	Uttar Pradesh	26.25	82.00
628	UNNAO_AGRO	Uttar Pradesh	26.57	80.48
629	VARANASI	Uttar Pradesh	25.30	83.02
630	BHARSAR	Uttarakhand	30.05	79.00
631	CHAMPAWAT	Uttarakhand	29.34	80.09
632	DHANAURI	Uttarakhand	29.93	77.97
633	JOLLYGRANT	Uttarakhand	30.19	78.18
634	KAPKOT	Uttarakhand	29.95	79.90
635	MASSOURIE	Uttarakhand	30.48	78.05
636	MATELA	Uttarakhand	29.62	79.62
637	NAINITAL	Uttarakhand	29.36	79.46
638	PANTNAGAR_AGRO	Uttarakhand	29.02	79.48
639	PITHAURAGARH	Uttarakhand	29.57	80.23
640	ROORKEE_AGRO	Uttarakhand	29.87	77.88
641	RUDRAPUR	Uttarakhand	28.98	79.40
642	CHAMOLI	Uttaranchal	30.40	79.32
643	DEHRADUN	Uttaranchal	30.32	78.02
644	JOSHIMATH	Uttaranchal	30.55	79.57
645	MUKTESHWAR	Uttaranchal	29.47	79.65
646	PUROLA	Uttaranchal	30.87	78.00
647	RUDRA_PRAYAG	Uttaranchal	30.32	78.97
648	UTTAR_KASHI	Uttaranchal	30.40	79.45
649	BANKURA	West Bengal	23.24	87.04
650	BARDWAN	West Bengal	23.21	87.88
651	BARUIPUR_AGRO	West Bengal	22.36	88.43
652	BASIRHAT	West Bengal	22.662	88.873
653	BERHAMPORE	West Bengal	24.092	88.27
654	CANNING	West Bengal	22.26	88.67
655	CHINSURA_HOOGLI	West Bengal	22.9	88.37
656	DARJEELING	West Bengal	27.05	88.27
657	HASIMARA	West Bengal	26.74	89.37
658	JALPAIGURI	West Bengal	26.52	88.72
659	KAKDWEEP	West Bengal	21.87	88.18
660	KALIMPONG_AGRO	West Bengal	27.07	88.46
661	KALYANI_AGRO	West Bengal	22.97	88.48
662	KHARAGPUR_AGRO	West Bengal	22.30	87.30
663	KHEJURI	West Bengal	21.87	87.95
664	KOLKATA	West Bengal	22.67	88.45
665	KRISHNANAGAR	West Bengal	23.40	88.49
666	MAJHIAN_AGRO	West Bengal	25.31	88.76
667	NIMPITH	West Bengal	22.17	88.45

	Station Name	State Name	Latitude (in Degrees)	Longitude (in Degrees)
668	PUNDIBARI_AGRO	West Bengal	24.40	89.39
669	PURULIA	West Bengal	23.32	86.42
670	RAIDIGHI	West Bengal	21.50	88.35
671	RAIGANJ	West Bengal	25.62	88.14
672	SAGAR_ISLAND	West Bengal	21.75	88.05
673	SURI	West Bengal	23.91	87.52
674	TAMLUK	West Bengal	22.27	87.92
675	ULUBERIA	West Bengal	22.47	88.09