

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 4578
TO BE ANSWERED ON WEDNESDAY, DECEMBER 14, 2016**

INSTALLATION OF AWS

4578. SHRI GAJENDRA SINGH SHEKHAWAT:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the Government proposes to install more Automatic Weather Stations (AWSs) in the country;**
- (b) if so, the details thereof and the locations identified in this regard;**
- (c) whether there is sufficient qualified personnel to handle data monitoring and reporting at all the stations; and**
- (d) if so, the details thereof and measures taken further to avoid and rectify malfunctioning of AWSs?**

ANSWER

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

- (a) Augmentation of the observing system networks including Automatic Weather Station (AWS) network is a continuing process that shall be taken up as per the emerging needs from time to time.**
- (b) India Meteorological Department (IMD) has installed 706 AWS in the country so far. Out of the 706 AWSs, 129 Agro- AWS are installed at Agromet field units located at various agricultural research stations in each of agro-climatic zones (having clusters of districts in each such zone). Efforts are being made in consultation with various agencies and year mark sites for the proposed installations (National Capital Region, Eastern India and Western and Central Himalayan Region) of AWS. The list is attached in Annexure-I.**
- (c) Yes, Madam.**
- (d) Various measures being taken up to avoid and rectify malfunctioning of AWSs. These are;**
 - Awarding AMC with penalty clauses for ensuring continuous availability of quality data in real time.**
 - Periodic calibration of the field sensors and the systems.**
 - Periodic maintenance of the AWS sites**
 - Watch & Ward mechanism for ensuring security of the sites.****Quality control, Calibration and Utilization of AWS data for forecasting and assimilation of AWS data is carried out on continuous basis for use in weather prediction models.**

ANNEXURE-I**LIST OF AWS SITES (NCR AND EASTERN INDIA)**

(Total AWS Sites: 200 Nos.)

HARYANA					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	FARIDABAD	1	FARIDABAD	2	BALLAVGARH
		3	ATALI	4	SURAJKUND
		5	CHHAINSA	6	PRITHALA
2	GURGAON	7	GURGAON	8	PATAUDI
		9	IMT MANESAR	10	SOHNA
		11	FARUK NAGAR	12	GARHI HARSANU
		13	BHUNDASI		
3	JHAJJAR	14	JHAJJAR	15	BAHADUR GARH
		16	BERI	17	MATANHEIL
		18	DIGHAL	19	BADLI
		20	PATAUDA	21	CHHUCHHAKWAS
		22	SALHAWAS		
4	MEWAT	23	NUH	24	PUNAHANA
		25	FEROZPUR JHIRKA	26	NAGINA
		27	PIHANGWAN		
5	PALWAL	28	PALWAL	29	HODAL
		30	HATHIN	31	HOSANPUR
		32	DHATIR	33	MANDKAOLA
6	PANIPAT	34	PANIPAT	35	ISRANA
		36	SAMALKHA	37	ASAN KHURD
		38	BABARPUR		
7	REWARI	39	REWARI	40	BEWAL
		41	KOSLI	42	BAHU
		43	KANWALI	44	JATUSANA
8	ROHTAK	45	ROHTAK	46	MAHAM
		47	SAMPLA	48	JASIA
		49	LAKHAN MAJRA	50	KALANOUR
9	SONEPAT	51	SONEPAT	52	KHARKHODA
		53	GANAUR	54	MUNDLANA
		55	RAI		
RAJASTHAN					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	ALWAR	1	ALWAR	2	BEHROR
		3	BHIWANI	4	LAAXMANGARH
		5	NEEMRANA	6	RAJGARH
		7	SARISKA	8	THANA GAZI
		9	TIJARA		
UTTAR PRADESH					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	BAGHPAT	1	BAGHPAT	2	DAULA
		3	CHHARPRAULI	4	TIKRI
		5	KUTANA		
2	BULANDSHAHAR	6	BULANDSHAHAR	7	SIKANDRABAD
		8	JAHANGIRBAD	9	AHAR
		10	SIYANA	11	SHIKHARPUR
		12	KHURJA	13	NARAURA
		14	PAHASU		
3	GHAZIABAD	15	GHAZIABAD	16	DASNA
		17	PIKHUA	18	HAPUR
		19	GARHMUKTESWAR	20	MODINAGAR
		21	MURADNAGAR	22	NIWARI
		23	DHAULANA		

4	GAUTAMBUDHNA GAR	24	NOIDA	25	GREATER NOIDA
		26	DADRI	27	DANKAUR
		28	PARSAUL	29	KASNA
		30	BHANGEL		
5	MEERUT	31	MEERUT	32	MAWANA
		33	DAURALA	34	SARDHANA
		35	PALTA	36	ROHTA
BIHAR STATE					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	BANKA	1	SHAMBUGANJ	2	CHANDAN
2	BHAGALPUR	3	PIRPANTI	4	BIHPUR / NAUGACHIA
3	BEGUSARAI	5	BACHWARA	6	GARHPURA
4	JAMUI	7	CHAKAI	8	SIKANDRA
5	LUCKEESARAI	9	RAMGRAH	10	SURYAGRAH
6	MUNGER	11	DHARHARA	12	SANGRAMPUR
7	NALANDA	13	RAJGIR	14	ISLAMPUR
8	NAWADA	15	KAUAKO	16	KASHICHAK
9	SHEIKHPURA	17	SHEIKHPURA	18	BARBIGHA
JHARKHAND STATE					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	BOKARO	1	BOKARO	2	GOMIA
2	DEOGHAR	3	MADHUPUR	4	SARATH
3	DHANBAD	5	TOPCHANCHI	6	NIRSA
4	DUMKA	7	JARMOUNDI	8	SIKARIPARA
5	EAST SINGHBHUM	9	JAMSHEDPUR	10	GHATSILA
6	GIRIDIH	11	DUMRI	12	BAGODAR
7	GODDA	13	BERHAIT	14	BORIO
		15	GODDA	16	AMRAPARA
8	JAMTARA	17	JAMTARA	18	NALA
9	PAKUR	19	PAKUR	20	AMRAPARA
10	SERAIKELA	21	SERAIKELA	22	KHARSAWAN
11	WEST SIGHBBHUM	23	CHAKARDHARPUR	24	MANOHARPUR
ORISSA					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	MAYURBHANJ	1	BAHALDA	2	KHUNTA
		3	RASAGOVINDPUR	4	NAWANA
2	KEONJHAR	5	CHAMPUA	6	BANSPAL
		7	HATADIHI	8	SARPADA
WEST BENGAL					
S.N.	DISTRICT	S.N.	AWS SITE		
1	BANKURA	1	MEJIA	2	SONAMUKHI
		3	BISHNUPUR	4	TALDANGA
		5	JHILMILI		
2	BIRBHUM	6	MURARI	7	RAMPURHAT
		8	RAJNAGAR	9	BOLPUR
3	BURDWAN	10	ASANSOL	11	KATOWA
		12	KALNA	13	PANAGARH
4	HOOGHLY	14	ARAMBAGH	15	DAHANIAKHALI
		16	SINGUR	17	KHANAKUL
5	HOWRAH	18	UDAYNARAYANPUR	19	JAGATBALLAVPUR
		20	AMTA	21	SYAMPUR
6	MURSHIDABAD	22	FARAKKA	23	JANGIPUR
		24	DOMKAL	25	KANDI
7	NADIA	26	BAGDANGA	27	KARIMPUR
		28	PALASHIPARA	29	DEBAGRAM
		30	RANAGHAT		
8	NORTH PARGANAS	31	BANGAON	32	NAIHATI

		33	GAIGHATA	34	SANDESHKHALI
9	PASCHIM MIDNAPORE	35	SILDA	36	SALBANI
		37	GHATAL	38	DATAN
10	PURBO MIDNAPORE	39	PANSKURA	40	HALDIA
		41	BHAGOBANPUR	42	PANCHET
		43	DIGHA		
11	PURULIA	44	JHALIDA	45	RAGHUNATHPUR
		46	MANBAZAR	47	BAMUNADIHA
12	SOUTH PARGANAS	48	ALIPORE	49	BHANGAR
		50	DIMOND HARBOUR		

**TENTATIVE LIST AWS SITES (WESTERN AND CENTRAL HIMALAYA)
AUTOMATIC WEATHER STATION (TOTAL 100 AWS SITES)**

State: Jammu and Kashmir (AWS SITES- 16 Nos.)					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1.	KATHUA	1.	HIRANAGAR		
2.	REASI	2.	TANDA		
3	RAJOURI	3	RAJOURI		
4.	DODA	4.	DODA CITY		
5.	KISTWAR	5.	BEERWAR		
6.	GANDERBAL	6.	NUNNER		
7.	BARAMULLA	7.	URI		
8.	BANDIPORA	8.	GUREZ		
9.	KUPWARA	9.	KARNAH		
10.	PULWAMA	10.	PAMPORE		
11.	LEH	11.	MO LEH	12	NYOMA
		13	PANGONG LAKE		
12	KARGIL	14	KVK	15	DRASS
		16	ZANSKAR(PADUM)		
State: Himachal Pradesh (AWS SITES- 17 Nos.)					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	BILASPUR	1	NAINA DEVI		
2	CHAMBA	2	BHARMAUR	3	PANGI
3	HAMIRPUR	4	SUJANPUR TIRA	5	JAWALAMUKHI
		6	MACLEODGANJ		
5	KINNAUR	7	SANGLA		
6	KULLU	8	BANJAR	9	ROHTANG PASS
7	L & SPITI	10	KAZA	11	KHOKSAR
8	MANDI	12	KARSOG		
9	SIRMOUR	13	RENUKA	14	HARIPURDHAR
10	SOLAN	15	DARLAGHAT		
		16	PARWANOO		
11	UNA	17	AMB		
State: Uttarakhand (AWS SITES- 62 Nos.)					
S.N.	DISTRICT	S.N.	AWS SITE	S.N.	AWS SITE
1	ALMORA	1	ALMORA	2	BHAINSTYA CHHANA
		3	DEWARPANI	4	JAINTI
		5	JOGESHWAR	6	KAUSANI
		7	MANSI	8	TAKULA
2	BAGESHWAR	9	KANDA	10	SHAMADHURA
3	CHAMPAWAT	11	CHALTHI	12	DEVIDHURA

		13	POORNAGIRI		
4	CHAMOLI	14	BADRINATH	15	GAIRSAIN
		16	GOVIND GHAT	17	GAWALDAM
		18	NANDGAON		
5	DEHRADUN	19	HARBATPUR	20	KOTI
		21	NAGTHAT	22	SAHASPUR
		23	SAHIYA		
6	TEHRI GHARWAL	24	DHUMAKOT	25	GHIRI
		26	KANDA	27	KALAGARH
		28	SATPULI	29	SYUNSI
		30	YAMKESHWAR		
7	HARIDWAR	31	BHAGWANPUR	32	SULTANPUR
8	NANITAL	33	CHORGALLIA	34	DHARI
		35	LALKAUN	36	KALADHUNGI
		37	HALDWANI		
9	PITHORAGARH	38	MALPA	39	MUNSIYARI
		40	TAWAGHAT	41	TEJAM
10	RUDRAPRAYAG	42	JAKHANI	43	KEDARNATH
		44	SONEPRAYAG		
11	TEHRI GARHWAL	45	CHAMYALA	46	KANATAL
		47	DANGCHURANA	48	MUYALGAON
		49	NARENDRA NAGAR	50	MUKHIM
12	UDHAM SINGH NAGAR	51	GADARPUR	52	JASPUR
		53	LALARPATTI	54	GULARBHOJ
		55	KICCHA		
13	UTTARKASHI	56	BARKOT	57	DUNDA
		58	GANGNANI	59	HARKIDUN
		60	JAN KI CHATTI	61	MORI
		62	NAITWAR		

State: West Bengal (AWS sites – 5 Nos.)

S.N.	DISTRICT	S.N.	AWS SITE		
1	ALIPUR DUAR	1	ALIPUR DUAR	2	BARABISHA
2	DARJEELING	3	GHOOM	4	LAVA
3	JPG	5	JALDAPARA		