

AUTOMATIC WEATHER STATION NETWORK

Agriculture is the mainstay of the rural community living in the villages of Jharkhand. The agriculture operations are to great extent weather dependent. The whole operations of ground preparation, tilling, sowing, weeding, fertilizer/pesticide applications, irrigation, harvesting etc. are decided based on weather situation and trends. The crop selection to a large extent is based on arrival of monsoon and its expected performance. Further, the post-harvest operations such as drying, transportation etc. also critically depend on fair weather. Thus, besides current weather information, the optimal planning and management of agricultural operations require forecast of weather over the next few days and an outlook for a few weeks ahead.

Availability of weather information to the rural community in terms of current weather situation, forecasts (short and medium range) and an outlook for the season can significantly reduce the risk involved in agriculture operations and lead to improved productivity. The weather insurance coverage being extended to the agricultural sector at farm level will also solely depend on the weather information with adequate spatial coverage and frequency. In order to establish the Jharkhand weather information service, a total of 60 Automatic Weather Stations (AWS) have been established in different 60 blocks covering all the districts of Jharkhand by Indian Space Research Organization in coordination with Jharkhand Space Application Centre (JSAC), Department of Information Technology, Govt. of Jharkhand. In second phase 54 AWS will be established. In future, Agriculture and Sugarcane Development Department, Govt. of Jharkhand is a planning to cover remaining blocks of Jharkhand.

To record the data from all these Automatic Weather Stations a Weather data reception centre has been established at Jharkhand Space Application Centre, Ranchi by Agriculture and Sugarcane Development Department, Govt. of Jharkhand with the help of ISRO. At present the weather services are being provided by JSAC through its website. In future there is a plan to start the Farmer Advisory Service using the Automatic Weather Station network. Through this service farmers can get expert advice about the agricultural operations to be carried out through SMS and by approaching Common Service Centre.

The location of Automatic Weather Stations installed in Jharkhand is given below.

| S.N. | District | Block | Contact details | Office/Institution |
|------|------------|------------------------|--|---------------------------------|
| 1 | BOKARO | GUMIA | Block Development Officer, GUMIA Dist-Bokaro, Jharkhand | D.C. office |
| 2 | CHATRA | GIDHAUR | Block Development Officer, GIDHAUR Dist-Chatra, Jharkhand | D.C. office |
| 3 | DEOGHAR | DEVIPUR | Block Development Officer, Devipur Dist-Deoghar, Jharkhand | D.C. office |
| 4 | DHANBAD | DHANBAD-CUM-KEN-DUADIH | Dr. Gurudeep Singh, Dept. of Environment Science and Engineering ISM Dhanbad | Indian School of Mines, Dhanbad |
| 5 | DUMKA | DUMKA | Block Development Officer, DUMKA Dist-Dumka, Jharkhand | D.C. office |
| 6 | GARHWA | BHANDARIA | Block Development Officer, BHANDARIA Dist-Garhwa, Jharkhand | D.C. office |
| 7 | GARHWA | BHAWNATHPUR | Block Development Officer, BHAWNATHPUR Dist-Garhwa, Jharkhand | |
| 8 | GARHWA | CHINIA | Block Development Officer, CHINIA Dist-Garhwa, Jharkhand | |
| 9 | GARHWA | DANDAI | Block Development Officer, DANDAI Dist-Garhwa, Jharkhand | |
| 10 | GARHWA | DHURKI | Block Development Officer, DHURKI Dist-Garhwa, Jharkhand | |
| 11 | GARHWA | KANDI | Block Development Officer, KANDI Dist-Garhwa, Jharkhand | |
| 12 | GARHWA | KHARAUNDHI | Block Development Officer, KHARAUNDHI Dist-Garhwa, Jharkhand | |
| 13 | GARHWA | MAJHIAON | Block Development Officer, MAJHIAON Dist-Garhwa, Jharkhand | |
| 14 | GARHWA | MERAL (PIPRA KALAN) | Block Development Officer, MERAL (PIPRA KALAN) Dist-Garhwa, Jharkhand | |
| 15 | GARHWA | NAGARUNTARI | Block Development Officer, NAGARUNTARI Dist-Garhwa, Jharkhand | |
| 16 | GARHWA | RAMKANDA | Block Development Office RAMKANDA Dist-Garhwa, Jharkhand | |
| 17 | GARHWA | RAMNA | Block Development Officer, RAMNA Dist-Garhwa, Jharkhand | |
| 18 | GARHWA | RANKA | Block Development Officer, RANKA Dist-Garhwa, Jharkhand | |
| 19 | GIRIDIH | JAMUA | Block Development Officer, JAMUA Dist-Giridih, Jharkhand | D.C. office |
| 20 | GODDA | MAHAGAMA | Block Development Officer, MAHAGAMA Dist-Godda, Jharkhand | D.C. office |
| 21 | GUMLA | GHAGHRA | Block Development Officer, GHAGHRA Dist-Gumla, Jharkhand | D.C. office |
| 22 | HAZARIBAGH | HAZARIBAGH | Vinoba Bhave University, Hazaribagh | Vice Chancellor |
| 23 | JAMTARA | NARAYANPUR | Block Development Officer, NARAYANPUR Dist-Jamtara, Jharkhand | D.C. office |
| 24 | KODERMA | CHANDWARA | Block Development Officer, CHANDWARA Dist-Koderma, Jharkhand | D.C. office |
| 25 | LATEHAR | CHANDWA | Nucleus Brood Lac Farm, Turhamu, Chandwa, Latehar | Director, IFP |
| 26 | LOHARDAGA | KISKO | Block Development Officer, Kisko Dist-Lohardaga, Jharkhand | D.C. office |

| | | | | |
|----|------------------------|---------------|---|-----------------|
| 27 | PAKAUR | AMRAPARA | Block Development Officer, AMRAPARA Dist-Pakur, Jharkhand | D.C. office |
| 28 | DALTONGANJ | BISHRAMPUR | Block Development Officer, BISHRAMPUR Dist-Daltonganj, Jharkhand | D.C. office |
| 29 | DALTONGANJ | CHAINPUR | Block Development Officer, CHAINPUR Dist-Daltonganj, Jharkhand | |
| 30 | DALTONGANJ | CHHATARPUR | Block Development Officer, CHHATARPUR Dist-Daltonganj, Jharkhand | |
| 31 | DALTONGANJ | HARIHARGANJ | Block Development Officer,HARIHARGANJ Dist-Daltonganj, Jharkhand | |
| 32 | DALTONGANJ | HUSSAINABAD | Block Development Officer, HUSSAINABAD Dist-Daltonganj, Jharkhand | |
| 33 | DALTONGANJ | LESLIEGANJ | Block Development Officer, LESLIEGANJ Dist-Daltonganj, Jharkhand | |
| 34 | DALTONGANJ | MANATU | Block Development Officer, MANATU Dist-Daltonganj, Jharkhand | |
| 35 | DALTONGANJ | PANDU | Block Development Officer, PANDU Dist-Daltonganj, Jharkhand | |
| 36 | DALTONGANJ | PANKI | Block Development Officer, PANKI Dist-Daltonganj, Jharkhand | |
| 37 | DALTONGANJ | PATAN | Block Development Officer, PATAN Dist-Daltonganj, Jharkhand | |
| 38 | DALTONGANJ | SATBARWA | Block Development Officer, SATBARWA Dist-Daltonganj, Jharkhand | |
| 39 | PASHCHIMI SINGHBHUM | CHAKRADHARPUR | Block Development Officer, CHAKRADHARPUR Dist- West Singhbhum, Jharkhand | D.C. office |
| 40 | PURBI SINGHBHUM | CHAKULIA | Block Development Officer, CHAKULIA Dist-East Singhbhum, Jharkhand | D.C. office |
| 41 | RAMGARH | RAMGARH | Block Development Officer, Ramgarh Post- Ramgarh, Dist-Ramgarh | D.C. office |
| 42 | RANCHI | ANGARA | Block Development Officer, ANGARA Dist-Ranchi, Jharkhand | D.C. office |
| 43 | RANCHI | MANDAR | Forest Reasearch Centre, Mandar, Ranchi | Director,IFP |
| 44 | RANCHI | BERO | Block Development Officer, BERO Dist-Ranchi, Jharkhand | |
| 45 | RANCHI | RATU | Central Tasar Research and Traning Institute, Naagri, Ranchi | Director,CTR&TI |
| 46 | RANCHI | NAMKUM | Jharkhand Space Application Center, Second Floor, Engineer's Hostel-II, Dhurwa, Ranchi | Director, JSAC |
| 47 | RANCHI | BUNDU | Block Development Officer, BUNDU Dist-Ranchi, Jharkhand | |
| 48 | RANCHI | BURMU | Block Development Officer, BURMU Dist-Ranchi, Jharkhand | |
| 49 | RANCHI | CHANHO | Block Development Officer,CHANHO Dist-Ranchi, Jharkhand | |
| 50 | RANCHI | LAPUNG | Block Development Officer,LAPUNG Dist-Ranchi, Jharkhand | |
| 51 | RANCHI | ORMANJHI | Block Development Officer, ORMANJHI Dist-Ranchi, Jharkhand | |
| 52 | RANCHI | SILLI | Block Development Officer,SILLI Dist-Ranchi, Jharkhand | |
| 53 | RANCHI | SONAHATU | Block Development Officer,SONAHATU Dist-Ranchi, Jharkhand | |
| 54 | RANCHI | TAMAR | Block Development Officer,TAMAR Dist-Ranchi, Jharkhand | |
| 55 | KHUNTI | KARRA | Block Development Officer,KARRA Dist-Khunti, Jharkhand | D.C. office |
| 56 | KHUNTI | ARKI | Block Development Officer, ARKI, Dist-Khunti, Jharkhand | |

| | | | | |
|----|-------------------------|-----------|---|-------------|
| 57 | KHUNTI | KHUNTI | Block Development Officer, KHUNTI Dist-Khunti, Jharkhand | |
| 58 | SAHIBGANJ | RAJMAHAL | Block Development Officer, RAJMAHAL Dist-Sahibganj, Jharkhand | D.C. office |
| 59 | SERAIKELA- KHARSAWAN | KHARSAWAN | Block Development Officer, KHARSAWAN Dist-Seraikele, Jharkhand | D.C. office |
| 60 | SIMDEGA | KOLEBIRA | Block Development Officer, Kolebira Dist- Lohardaga, Jharkhand | D.C. office |

INDIA - JARKHAND

