



भारत सरकार/ Government of India
विद्युत मंत्रालय/ Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority
ग्रिड प्रबंधन प्रभाग/ Grid Management Division

सं.: 12/एक्स/एस.टी.डी.(सी.ओ.एन.एन)/जी.एम./2024/१२

दिनांक: 08.04.2024


विषय: दिनांक 04.04.2024 (गुरुवार) को प्रातः 11:30 बजे सदस्य (ग्रि.प्रचा. एवं वि.) , के.वि.प्रा. द्वारा केन्द्रीय विद्युत प्राधिकरण विनियम (ग्रिड से कनेक्टिविटी के लिए तकनीकी मानक) के अनुपालन में आर.ई.जेनरेटर के लिए डिजाइन ऑपरेटिंग तापमान के मुद्दे पर चर्चा करने के लिए बैठक का कार्यवृत्त।

Subject : Minutes of the Meeting taken by Member (GO&D), CEA, on 04.04.2024 (Thursday) at 11:30 AM to discuss the issue of design operating temperature for RE Generators in compliance to CEA (Technical Standards for Connectivity to the Grid) Regulations.

सदस्य (ग्रिड प्रचालन एवं वितरण) , के.वि.प्रा. , की अध्यक्षता में दिनांक 04.04.2024 को प्रातः 11:30 बजे आयोजित बैठक का कार्यवृत्त आपकी जानकारी एवं आवश्यक कार्यवाही हेतु संलग्न है।

Please find enclosed herewith the minutes of the meeting held under the Chairmanship of Member (Grid Operation & Distribution) CEA on 04.04.2024 at 11:30 AM., for information and necessary action

संलग्नक: यथोपरि।


08/04/2024
(ओ.पी. सुमन)
निदेशक (ग्रिड प्रबंधन)

बैठक के सभी प्रतिभागियों को ई-मेल द्वारा प्रेषित

Minutes of the Meeting taken by Member (GO&D), CEA, on 04.04.2024 (Thursday) at 11:30 AM to discuss the issue of design operating temperature for RE Generators in compliance to CEA (Technical Standards for Connectivity to the Grid) Regulations.

1. List of the participants is enclosed at **Annexure-I**.
2. Welcoming the participants, Member (GO&D), CEA, mentioned that the meeting of the Working Group entities viz., CTU, GRID-India (erstwhile, POSOCO), SECI and CEA, was scheduled to discuss the issue of design operating temperature for RE Generators in compliance to CEA (Technical Standards for Connectivity to the Grid) Regulations. He mentioned that the Working Group comprising of members from CEA, CTU, Grid-India & SECI, had in July, 2022 submitted their Report on various issues related to compliance of Central Electricity Authority (Technical Standards for Connectivity to the Grid), Regulations for guidance of the RE Generators. One of the aspect deliberated in the said Report of the Working Group was concerning the temperature extremes corresponding to the location of the RE generating station for design of their machines (WTG/Inverter), for which the temperature data recorded by the nearest measuring station of the India Meteorological Department (IMD) under Ministry of Earth Sciences, Govt. of India, was to be considered.
3. Member (GO&D), CEA, mentioned that in view of the issues and difficulties being faced by RE developers in seeking temperature data from IMD corresponding to the location of the RE generating station for design of the machines, CEA had pursued the subject matter with IMD. In this context, the maximum temperature data of all the IMD measuring stations in India was requested for and the same was received from IMD vide email dated 27.03.2024. The data of maximum temperature of 389 IMD measuring stations for the period 2001 to 2023 furnished by IMD along with the coordinates of the stations as well as the maximum temperature data plotted on the map of the country, as received from IMD, was presented in the meeting for deliberations. The said information is attached at **Annexure-II** of these Minutes.
4. The views of all the participants of the Meeting were sought regarding utilizing the available maximum temperature data from IMD corresponding to the location of the RE generating station for design of the machines, so as to expedite the capacity addition of RE Projects. **After the detailed discussions and based on the submissions made by representatives of Grid-India, CTU, SECI and CEA, Member(GO&D), CEA, summarized the recommendations on the subject as under:**
 - (i) The process to be followed by the RE Generators for assessing the design temperature at the higher extremum end based on the maximum/extreme temperature corresponding to the location of the RE generating station, has been explicitly outlined under Point No. 4) of Part –I of Working Group Report of July, 2022, and the same needs to be considered by RE Generators for design of their machines (WTG/Inverter). However, the maximum temperature is to be considered as per the information received from IMD as per the attached **Annexure-II**.

- (ii) The Maximum Temperature data of all the IMD measuring stations in India after the year 2001 as furnished by IMD, reasonably reflects the climatic conditions of the said locations with geographical changes over a period of time. The same shall be considered as the base data by the RE Generators for computation of the higher extremum temperature for design of their machines (WTG/Inverter).
- (iii) The reference point for computation of the higher extremum temperature for design purpose, shall be the pooling station of respective RE Plant. The coordinates of the pooling station of RE plant shall be considered by the RE Generator for tracking the nearest IMD weather measuring station from the list received from IMD as attached at **Annexure-II** herein. The Maximum Temperature data of the nearest IMD station only shall be considered as base for computation of the higher extremum temperature for design of the machines (WTG/Inverter) of the RE plant.
- (iv) As outlined in the Working Group Report of July,2022, the Maximum Temperature values of all the IMD measuring stations will be rounded off to the next higher integer and margin of 1°C shall be added for computation of the higher extremum temperature for design of the machines (WTG/Inverter) of the RE Plant. It is the considered view that the said mechanism for design will entail requisite margin to account for the global climate change scenario and ensure the desired operation of the RE Plant throughout its operating life. With a view to facilitate the ease of reference for the RE Plant Developers, the cited computation of the higher extremum temperature for design of the machines, has been effected on the available IMD data received and is attached at **Annexure-III** herein.
- (v) It would be desirable that the mechanism discussed herein above along with other recommendations of the Working Group in Report of July,2022, become part of the bidding document for the RE bids of SECI and other REIAs (Renewable Energy Implementing Agencies), so as to reinforce compliance with the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations.
- (vi) The **Annexure-II** and **Annexure-III** forming part of these Minutes shall be revised in first week of every financial year to reflect any updates based on the maximum temperature data to be made available by the IMD for the purpose. The same would be published on website of CEA, CTUIL and Grid India for ready reference of the RE developers. Further, till such time the data is updated, the latest one available on the website of CEA shall be referred to by the RE Developers for design of the machines (WTG/Inverter) of the RE Plant.

The Meeting ended with a Vote of Thanks to the Chair.

List of the participants in the meeting held on 04/04/2024 at 11:30 AM

Central Electricity Authority (CEA)

1. Sh. Hemant Jain, Member (Grid Operation & Distribution)
2. Sh. B. Lyngkholi, Chief Engineer (Grid Management)
3. Sh. O.P. Suman, Director (Grid Management)
4. Sh. Sandeep Kumar, Deputy Director (Grid Management)
5. Sh. Dhruv Kawat, Assistant Director (Grid Management)

GRID-India

1. Sh. Vivek Pandey, Sr. GM
2. Sh. Abhijeet Prakash, Chief Manager
3. Sh. Prabhankar Porwal, Manager

Central Transmission Utility of India Limited (CTUIL)

1. Sh. PS Das, Sr. GM
2. Sh. Ajay Kumar, Asst. Manager
3. Sh. Roushan Kumar, Engineer

Solar Energy Corporation of India Limited (SECI)

1. Sh. Shreedhar Singh, AGM (Projects)

HIGHEST MAXIMUM TEMPERATURE [Date Period 2001 - 2023]



Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
1	43309	MAYABUNDER	ANDAMAN & NICOBAR	12.92	92.92	38.2
2	43310	LONG ISLAND	ANDAMAN & NICOBAR	12.42	92.93	39
3	43333	PORT BLAIR	ANDAMAN & NICOBAR	11	92.72	36.8
4	43364	HUTBAY	ANDAMAN & NICOBAR	10.58	92.55	39.6
5	43382	NANCOWRY	ANDAMAN & NICOBAR	7.98	93.53	39
6	43367	CAR NICOBAR	ANDAMAN & NICOBAR	9.17	92.83	38.1
7	14223	TIRUMALA	ANDHRA PRADESH	13.67	79.38	36.8
8	43105	KALINGAPATNAM	ANDHRA PRADESH	18.33	84.13	42.3
9	43147	TUNI	ANDHRA PRADESH	17.35	82.55	47.5
10	43149	VISAKHAPATNAM, AP	ANDHRA PRADESH	17.72	83.23	45
11	43150	VISAKHAPATNAM	ANDHRA PRADESH	17.68	83.3	40.5
12	43177	RENTACHINTALA	ANDHRA PRADESH	16.55	78.55	49.9
13	43181	GANNAVARAM	ANDHRA PRADESH	16.53	80.8	48.8
14	43182	NANDIGAMA	ANDHRA PRADESH	16.78	80.28	47.1
15	43185	MACHILIPATNAM	ANDHRA PRADESH	16.2	81.15	47.6
16	43187	NARSAPUR	ANDHRA PRADESH	16.43	81.7	45.3
17	43189	KAKINADA	ANDHRA PRADESH	16.95	82.23	47.4
18	43212	NANDYAL	ANDHRA PRADESH	15.47	78.33	46.6
19	43213	KURNOOL	ANDHRA PRADESH	15.8	78.07	45.3
20	43220	BAPATLA	ANDHRA PRADESH	15.9	80.47	47
21	43221	ONGOLE	ANDHRA PRADESH	15.57	80.05	47.4
22	43237	ANANTAPUR	ANDHRA PRADESH	14.68	77.63	44.5
23	43241	KADAPPA	ANDHRA PRADESH	14.33	78.83	44.9
24	43243	KAVALI	ANDHRA PRADESH	14.9	79.98	47.2
25	43245	NELLORE	ANDHRA PRADESH	14.45	79.98	46.5
26	43271	AROYAVARAM	ANDHRA PRADESH	13.53	78.5	41.5
27	43275	TIRUPATI	ANDHRA PRADESH	13.67	79.58	45.7
28	42220	PASSIGHAT	ARUNACHAL PRADESH	28.1	95.38	38.4
29	42308	ITANAGAR	ARUNACHAL PRADESH	27.1	93.62	39.5
30	42529	DEOMALI	ARUNACHAL PRADESH	26.92	95.27	39.6
31	42309	NORTH LAKHIMPUR	ASSAM	27.23	94.12	39.9
32	42314	MOHANBARI	ASSAM	27.48	95.02	39.8
33	42404	DHUBRI	ASSAM	26.02	89.98	39.3
34	42407	GOALPARA	ASSAM	26.18	90.63	37
35	42408	RANGIA	ASSAM	26.43	91.62	38
36	42409	TANGLA	ASSAM	26.65	91.92	38.2
37	42410	GUWAHATI	ASSAM	26.1	91.58	40.6
38	42413	MAZBAT	ASSAM	26.75	92.35	38.4
39	42414	CHAPARMUKH	ASSAM	26.2	92.52	39.7
40	42415	TEZPUR	ASSAM	26.62	92.78	39.2
41	42420	GOLAGHAT	ASSAM	26.52	93.98	38
42	42423	JORHAT	ASSAM	26.73	94.17	38.5
43	42523	LUMDING	ASSAM	25.75	93.18	38
44	42619	SILCHAR	ASSAM	24.82	92.8	39.8
45	42387	MUZAFFARPUR	BIHAR	26.12	85.4	42.8
46	42391	DARBHANGA	BIHAR	26.17	85.9	41.6
47	42393	SUPAUL	BIHAR	26.13	86.58	41.7
48	42395	FORBESGANJ	BIHAR	26.3	87.27	43.2
49	42488	CHAPRA	BIHAR	25.78	84.73	43.1
50	42492	PATNA	BIHAR	25.6	85.17	45.6
51	42498	BHAGALPUR	BIHAR	25.23	86.97	45.6
52	42499	SABOUR	BIHAR	25.23	87.07	44.1
53	42500	PURNEA	BIHAR	25.23	87.45	43.5
54	42588	DEHRI	BIHAR	24.92	84.18	46.8
55	42591	GAYA	BIHAR	24.75	84.95	46.7
56	42693	AMBIKAPUR	CHHATTISGARH	23.17	83.25	44.8
57	42779	PENDRA ROAD	CHHATTISGARH	22.77	81.9	44.6
58	42782	BILASPUR	CHHATTISGARH	22.1	82.17	49.3
59	42872	RAIPUR (MANA)	CHHATTISGARH	21.23	81.65	47.2
60	42874	RAIPUR	CHHATTISGARH	21.23	81.65	46.9
61	42876	DURG	CHHATTISGARH	21.18	81.28	46.4
62	42948	RAJNANDGAON	CHHATTISGARH	21.1	81.03	46.1
63	43041	JAGDALPUR	CHHATTISGARH	19.08	82.03	45.5
64	42180	NEW DELHI (AYANAGAR)	DELHI	28.48	77.13	47

Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
65	42181	NEW DELHI (PALAM)	DELHI	28.57	77.12	48
66	42182	NEW DELHI (SAFDARJUNG)	DELHI	28.58	77.2	46
67	42184	NEW DELHI (RIDGE)	DELHI	28.68	77.22	47.2
68	43192	PANJIM	GOA	15.48	73.82	39.2
69	43196	MORMUGAO	GOA	15.42	73.78	38.4
70	42539	DEESA	GUJARAT	24.2	72.2	48
71	42631	NALIYA	GUJARAT	23.25	68.85	44.2
72	42634	BHUJ	GUJARAT	23.25	69.8	46
73	42638	KANDLA (A)	GUJARAT	23.08	70.07	48.4
74	42639	NEW KANDLA	GUJARAT	23.15	70.22	45.9
75	42647	AHMEDABAD	GUJARAT	23.07	72.63	48
76	42651	IDAR	GUJARAT	23.83	73.03	48.5
77	42654	GANDHINAGAR	GUJARAT	23.23	72.72	48
78	42730	OKHA	GUJARAT	22.48	69.12	37.5
79	42731	DWARKA	GUJARAT	22.23	68.95	39.8
80	42737	RAJKOT	GUJARAT	22.3	70.78	46
81	42740	SURENDRANAGAR	GUJARAT	22.73	71.52	47.8
82	42744	VALLABH VIDYANAGAR	GUJARAT	22.57	72.93	46.6
83	42748	VADODARA (A)	GUJARAT	22.33	73.27	46.2
84	42830	PORBANDAR (A)	GUJARAT	21.65	69.67	44.4
85	42832	KESHOD	GUJARAT	21.18	70.18	45.5
86	42834	AMRELI	GUJARAT	21.6	71.22	46.8
87	42837	MAHUVA	GUJARAT	21.08	71.78	43.4
88	42838	BHAVNAGAR	GUJARAT	21.75	72.2	45.2
89	42840	SURAT	GUJARAT	21.1	72.73	44.2
90	42909	VERAVAL	GUJARAT	20.9	70.37	43.4
91	42914	DIU	GUJARAT	20.42	70.55	42.3
92	42915	VALSAD	GUJARAT	20.62	72.93	43.1
93	42103	AMBALA	HARYANA	30.38	76.77	45.9
94	42105	CHANDIGARH	HARYANA	30.73	76.72	45.1
95	42131	HISAR	HARYANA	29.17	75.73	48
96	42137	KARNAL	HARYANA	29.7	77.03	46
97	42176	ROHTAK	HARYANA	28.83	76.58	46.8
98	42177	NARNAUL	HARYANA	28	76.08	47
99	42062	DHARAMSHALA	HIMACHAL PRADESH	32.27	76.38	38.6
100	42065	MANALI	HIMACHAL PRADESH	32.27	77.17	34.6
101	42066	KALPA	HIMACHAL PRADESH	31.53	78.25	30.7
102	42076	KANGRA (A)	HIMACHAL PRADESH	32.15	76.25	42.3
103	42077	UNA	HIMACHAL PRADESH	31.47	76.27	45.2
104	42078	MANDI	HIMACHAL PRADESH	31.72	76.97	42.2
105	42079	SUNDERNAGAR	HIMACHAL PRADESH	31.53	76.9	42.1
106	42081	BHUNTAR	HIMACHAL PRADESH	31.83	77.17	39
107	42083	SHIMLA	HIMACHAL PRADESH	31.1	77.17	32.4
108	42084	SHIMLA (A)	HIMACHAL PRADESH	31.07	77.07	37.7
109	42104	NAHAN	HIMACHAL PRADESH	30.4	76.73	40.9
110	42106	SOLAN (NAUNI)	HIMACHAL PRADESH	30.83	77.13	39
111	42026	GULMARG	JAMMU AND KASHMIR	34.05	74.4	31.2
112	42027	SRINAGAR	JAMMU AND KASHMIR	34.08	74.83	36.5
113	42028	PAHALGAM	JAMMU AND KASHMIR	34.03	75.33	31.3
114	42031	KUPWARA	JAMMU AND KASHMIR	34.42	74.3	36.9
115	42034	LEH	JAMMU AND KASHMIR	34.15	77.57	36.6
116	42043	BATOTE	JAMMU AND KASHMIR	33.12	75.32	35.4
117	42044	QAZIGUND	JAMMU AND KASHMIR	33.58	75.08	34.6
118	42045	BANIHAL	JAMMU AND KASHMIR	33.5	75.17	36
119	42046	KOKERNAG	JAMMU AND KASHMIR	33.58	75.5	34.9
120	42048	BHADERWAH	JAMMU AND KASHMIR	32.98	75.72	39.3
121	42054	KATRA	JAMMU AND KASHMIR	32.97	74.92	42.6
122	42056	JAMMU	JAMMU AND KASHMIR	32.67	74.83	46.3
123	42060	KATHUA	JAMMU AND KASHMIR	32.33	75.5	48
124	42587	DALTONGANJ	JHARKHAND	24.22	84.07	47
125	42701	RANCHI	JHARKHAND	23.32	85.32	43.2
126	42795	CHAIBASA	JHARKHAND	22.55	85.82	44
127	42798	JAMSHEDPUR	JHARKHAND	22.8	86.18	46.2
128	42799	JAMSHEDPUR CITY	JHARKHAND	22.82	86.18	45.9

Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
129	43121	GULBARGA	KARNATAKA	17.2	76.5	47.3
130	43125	BIDAR	KARNATAKA	17.5	77.3	44
131	43160	BAGALKOT	KARNATAKA	16.4	75.1	42
132	43161	BIJAPUR	KARNATAKA	16.4	74.4	43
133	43169	RAICHUR	KARNATAKA	16.1	77.33	44.4
134	43197	BELGAUM	KARNATAKA	15.5	74.3	40.1
135	43198	BELGAUM (A)	KARNATAKA	15.5	74.3	40.2
136	43200	DHARWAD	KARNATAKA	15.48	74.98	40.9
137	43201	GADAG	KARNATAKA	15.2	75.2	40.5
138	43225	KARWAR	KARNATAKA	14.4	74	40.2
139	43226	HONAVAR	KARNATAKA	12.1	74.2	38.8
140	43227	HAVERI	KARNATAKA	14.78	75.35	41.2
141	43228	KOPPAL	KARNATAKA	15.2	76	42.6
142	43229	SHIRALI	KARNATAKA	14	74.3	38.9
143	43230	DAVANGERE	KARNATAKA	14.5	75.98	40.5
144	43233	CHITRADURGA	KARNATAKA	14.13	76.25	41
145	43258	SHIMOGA	KARNATAKA	13.93	75.63	44
146	43259	BALEHONNUR	KARNATAKA	13.2	75.2	38.2
147	43260	CHICKMAGALUR	KARNATAKA	13.1	75.4	36.5
148	43263	HASSAN	KARNATAKA	12.5	76.2	37.4
149	43272	CHINTAMANI	KARNATAKA	13.1	78	40
150	43284	MANGALORE (BAJPE)(A)	KARNATAKA	12.5	74.5	38.2
151	43285	MANGALORE (PANAMBUR)	KARNATAKA	12.5	74.5	39.6
152	43289	MANDYA	KARNATAKA	12.3	76.5	39.6
153	43291	MYSORE	KARNATAKA	12.1	76.4	39.9
154	43293	BENGALURU (KIA)	KARNATAKA	13.18	77.7	38.6
155	43295	BENGALURU	KARNATAKA	12.97	77.58	39.2
156	43296	BENGALURU (HAL)	KARNATAKA	12.5	78.3	37.8
157	43314	KOZHIKODE	KERALA	11.25	75.78	39.2
158	43315	KANNUR	KERALA	11.83	75.33	39.2
159	43320	KOZHIKODE (A)	KERALA	11.13	75.95	37.8
160	43335	PALAKKAD	KERALA	10.77	76.65	41.9
161	43336	KOCHI (CIAL)	KERALA	10.15	76.4	38.1
162	43352	ALAPPUZHA	KERALA	9.55	76.42	38
163	43354	PUNALUR	KERALA	9	76.92	40.4
164	43355	KOTTAYAM	KERALA	9.53	76.6	38.6
165	43357	THRISSUR (VELLANIKKARA)	KERALA	10.52	76.22	40.4
166	43371	THIRUVANANTHAPURAM	KERALA	8.48	76.95	38.2
167	43372	THIRUVANANTHAPURAM (A)	KERALA	8.47	76.95	35.6
168	43266	AGATTI	Lakshadweep	10.85	72.47	38
169	43311	AMINIDIVI	Lakshadweep	11.12	72.73	37.6
170	43369	MINICOY	Lakshadweep	8.3	73.15	35.6
171	42361	GWALIOR	MADHYA PRADESH	26.23	78.25	47.8
172	42456	SHEOPUR	MADHYA PRADESH	25.67	76.68	47.8
173	42459	SHIVPURI	MADHYA PRADESH	25.33	77.65	47
174	42460	DATIA	MADHYA PRADESH	25.67	78.47	48.5
175	42467	NOWGONG	MADHYA PRADESH	25.07	79.45	47.9
176	42557	RAJGARH	MADHYA PRADESH	24	76.72	46.8
177	42559	GUNA	MADHYA PRADESH	24.65	77.32	47.6
178	42562	TIKAMGARH	MADHYA PRADESH	24.77	78.83	47
179	42567	KHAJURAHO	MADHYA PRADESH	24.98	79.92	48
180	42571	SATNA	MADHYA PRADESH	24.57	80.83	48.4
181	42574	REWA	MADHYA PRADESH	24.53	81.3	47.5
182	42577	SIDHI	MADHYA PRADESH	24.42	81.87	52.3
183	42661	RATLAM	MADHYA PRADESH	23.32	75.05	44.9
184	42662	UJJAIN	MADHYA PRADESH	23.18	75.78	46
185	42665	SHAJAPUR	MADHYA PRADESH	23.43	76.32	47.3
186	42667	BHOPAL (BAIRAGARH)	MADHYA PRADESH	23.28	77.35	46.7
187	42671	SAGAR	MADHYA PRADESH	23.85	78.75	47
188	42672	RAISEN	MADHYA PRADESH	23.32	77.83	47
189	42674	DAMOH	MADHYA PRADESH	23.83	79.45	47.7
190	42675	JABALPUR	MADHYA PRADESH	23.2	79.95	46.8
191	42679	UMARIA	MADHYA PRADESH	23.53	80.88	48.7
192	42715	MALANJKHAND	MADHYA PRADESH	22	80.7	45.6

Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
193	42752	DHAR	MADHYA PRADESH	22.6	75.3	46.4
194	42753	ALIRAJPUR	MADHYA PRADESH	22.28	74.4	44.2
195	42754	INDORE	MADHYA PRADESH	22.72	75.8	44.5
196	42763	HOSHANGABAD	MADHYA PRADESH	22.77	77.77	47.7
197	42767	PACHMARHI	MADHYA PRADESH	22.47	78.43	41.2
198	42768	CHHINDWARA	MADHYA PRADESH	22.1	79	47.6
199	42770	NARSINGHPUR	MADHYA PRADESH	22.95	79.18	47
200	42771	SEONI	MADHYA PRADESH	22.08	79.55	44.5
201	42776	MANDLA	MADHYA PRADESH	22.58	80.37	46.1
202	42849	KHARGONE	MADHYA PRADESH	21.82	75.62	47.9
203	42855	KHANDWA	MADHYA PRADESH	21.83	76.37	47.5
204	42860	BETUL	MADHYA PRADESH	21.87	77.93	44.7
205	42851	JALGAON	MAHARASHTRA	21.05	75.57	46.9
206	42867	NAGPUR	MAHARASHTRA	21.1	79.05	47.9
207	42871	GONDIA	MAHARASHTRA	21.52	80.28	47.5
208	42921	NASHIK	MAHARASHTRA	19.97	73.82	42.8
209	42925	MALEGAON	MAHARASHTRA	20.55	74.53	46
210	42931	BULDHANA	MAHARASHTRA	20.53	76.23	44.2
211	42933	AKOLA	MAHARASHTRA	20.7	77.03	47.2
212	42935	WASHIM	MAHARASHTRA	20.12	77.13	45.4
213	42937	AMRAVATI	MAHARASHTRA	20.93	77.78	49.8
214	42939	WARDHA	MAHARASHTRA	20.67	78.58	48
215	42943	YAVATMAL	MAHARASHTRA	20.4	78.15	45.8
216	42946	BRAHMAPURI	MAHARASHTRA	20.6	79.85	49
217	43001	DAHANU	MAHARASHTRA	19.97	72.72	40.9
218	43003	MUMBAI (SANTACRUZ)	MAHARASHTRA	19.12	72.85	41.3
219	43005	T.B.I.A.	MAHARASHTRA	19.15	73	43.2
220	43009	AHMEDNAGAR	MAHARASHTRA	19.08	74.8	44.3
221	43014	AURANGABAD (CHIKALTHANA)	MAHARASHTRA	19.85	75.4	43.8
222	43017	PARBHANI	MAHARASHTRA	19.27	76.77	47.2
223	43021	NANDED	MAHARASHTRA	19.08	77.33	46
224	43029	CHANDRAPUR	MAHARASHTRA	19.97	79.3	49
225	43057	MUMBAI (COLABA)	MAHARASHTRA	18.9	72.82	41.6
226	43058	ALIBAG	MAHARASHTRA	18.63	72.87	40.1
227	43062	BHIRA	MAHARASHTRA	18.45	73.4	49
228	43063	PUNE	MAHARASHTRA	18.53	73.85	43
229	43069	BARAMATI	MAHARASHTRA	18.15	74.58	42.8
230	43071	JEUR	MAHARASHTRA	18.2	75.2	45.3
231	43075	OSMANABAD	MAHARASHTRA	18.17	76.77	46.7
232	43076	UDGIR	MAHARASHTRA	18.07	77.12	46.2
233	43109	HARNAI	MAHARASHTRA	17.82	73.1	40.4
234	43110	RATNAGIRI	MAHARASHTRA	16.98	73.33	40.6
235	43111	MAHABALESHWAR	MAHARASHTRA	17.93	73.67	36.2
236	43113	SATARA	MAHARASHTRA	17.7	74.02	42.6
237	43117	SOLAPUR	MAHARASHTRA	17.67	75.9	45.1
238	43157	KOLHAPUR	MAHARASHTRA	16.7	74.23	41.2
239	43158	SANGLI	MAHARASHTRA	16.85	74.6	43
240	43193	VENGURLA	MAHARASHTRA	15.87	73.63	38.9
241	42623	IMPHAL	MANIPUR	24.77	93.9	35.9
242	42512	BARAPANI	MEGHALAYA	25.7	91.97	35.2
243	42515	CHERRAPUNJEE	MEGHALAYA	25.25	91.73	32.1
244	42516	SHILLONG	MEGHALAYA	25.57	91.87	29.7
245	42726	LENGPUI	MIZORAM	23.83	92.62	38.8
246	42727	AIZWAL	MIZORAM	23.73	92.73	35.5
247	42527	KOHIMA	NAGALAND	25.63	94.17	32.4
248	42792	SUNDERGARH	ORISSA	22.12	84.03	47.6
249	42881	HIRAKUD	ORISSA	21.53	83.9	46.6
250	42883	SAMBALPUR	ORISSA	21.47	83.97	49
251	42886	JHARSUGUDA	ORISSA	21.92	84.08	47
252	42891	KEONJHAR	ORISSA	21.62	86.52	44.5
253	42894	BARIPADA	ORISSA	21.93	86.77	46.2
254	42895	BALASORE	ORISSA	21.52	86.93	46.4
255	42961	TITLAGARH	ORISSA	20.3	83.3	50.1
256	42963	BOLANGIR	ORISSA	20.7	83.5	47.6

Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
257	42966	PHULBANI	ORISSA	20.48	84.27	44
258	42969	ANGUL	ORISSA	20.83	85.1	46.2
259	42970	CUTTACK	ORISSA	20.47	85.93	45.3
260	42971	BHUBANESWAR	ORISSA	20.25	85.83	46.7
261	42973	CHANDABALI	ORISSA	20.78	86.73	47.2
262	42976	PARADEEP	ORISSA	20.3	86.68	42.4
263	43042	BHAWANIPATNA	ORISSA	19.92	83.18	47
264	43049	GOPALPUR	ORISSA	19.27	84.88	42.6
265	43053	PURI	ORISSA	19.8	85.82	43.6
266	43097	KORAPUT	ORISSA	18.82	82.72	42.6
267	42071	AMRITSAR	PUNJAB	31.63	74.87	48
268	42099	LUDHIANA	PUNJAB	30.87	75.93	46.5
269	42101	PATIALA	PUNJAB	30.33	76.47	46.3
270	42123	SRIGANGANAGAR	RAJASTHAN	29.92	73.92	49.9
271	42165	BIKANER	RAJASTHAN	28	73.3	49.4
272	42170	CHURU	RAJASTHAN	28.25	74.92	49
273	42174	PILANI	RAJASTHAN	28.33	75.58	47.4
274	42237	PHALODI	RAJASTHAN	27.13	72.37	48
275	42249	SIKAR	RAJASTHAN	27.62	75.13	47.1
276	42258	BHARATPUR	RAJASTHAN	27.22	77.5	46.8
277	42328	JAISALMER	RAJASTHAN	26.9	70.92	49
278	42339	JODHPUR	RAJASTHAN	26.3	73.02	48.8
279	42343	AJMER	RAJASTHAN	26.45	74.62	46
280	42348	JAIPUR	RAJASTHAN	26.82	75.8	47
281	42435	BARMER	RAJASTHAN	25.75	71.38	49.1
282	42441	JAWAI BANDH	RAJASTHAN	25.08	73.08	48
283	42447	BHILWARA	RAJASTHAN	25.35	74.63	47
284	42450	BUNDI	RAJASTHAN	25.45	75.63	48
285	42452	KOTA	RAJASTHAN	25.15	75.85	48.4
286	42453	SAWAI MADHOPUR	RAJASTHAN	25.98	76.37	47.3
287	42540	MOUNT ABU	RAJASTHAN	24.6	72.72	40.4
288	42542	UDAIPUR (A) (DABOK)	RAJASTHAN	23.62	75.88	46
289	42546	CHITTORGARH	RAJASTHAN	24.88	74.63	47.4
290	42217	TADONG	SIKKIM	27.33	88.63	34.5
291	42299	GANGTOK	SIKKIM	27.33	88.62	29.3
292	15217	KAMACHIPURAM	TAMIL NADU	10.52	77.87	42
293	43277	TIRUTTANI	TAMIL NADU	13.15	79.53	48.6
294	43278	CHENNAI (NUNGAMBAKKAM)	TAMIL NADU	13.07	80.25	45
295	43279	CHENNAI (MEENAMBAKKAM)	TAMIL NADU	13	80.18	49.1
296	43301	DHARMAPURI	TAMIL NADU	12.13	78.03	41.1
297	43302	TIRUPATTUR	TAMIL NADU	12.48	78.57	42.8
298	43303	VELLORE	TAMIL NADU	12.92	79.15	45
299	43317	UDAGAMANDALAM	TAMIL NADU	11.4	76.73	27
300	43318	COONOOR	TAMIL NADU	11.35	76.8	29
301	43321	COIMBATORE (A)	TAMIL NADU	11.03	77.05	39.8
302	43325	SALEM	TAMIL NADU	11.65	78.17	42.8
303	43329	CUDDALORE	TAMIL NADU	11.77	79.77	42.3
304	43331	PUDUCHERRY	TAMIL NADU	10.97	79.82	43.4
305	43338	ERODE	TAMIL NADU	11.48	77.77	41.8
306	43339	KODAIKANAL	TAMIL NADU	10.23	77.47	29.3
307	43341	VALPARAI	TAMIL NADU	10.28	77	34
308	43342	KARUR PARAMATHI	TAMIL NADU	10.95	78.08	43
309	43344	TIRUCHIRAPALLI (A)	TAMIL NADU	10.77	78.72	42.9
310	43346	KARAIKAL	TAMIL NADU	10.92	79.83	42.4
311	43347	NAGAPATTINAM	TAMIL NADU	10.77	79.85	41.2
312	43348	ADIRAMAPATTINAM	TAMIL NADU	10.33	79.38	40.6
313	43358	KOVILANKULAM	TAMIL NADU	9.55	78.08	43
314	43360	MADURAI (A)	TAMIL NADU	9.5	78.08	42.3
315	43361	TONDI	TAMIL NADU	9.73	79.03	40.4
316	43363	PAMBAN	TAMIL NADU	9.27	79.3	38.8
317	43376	PALAYAMKOTTAI	TAMIL NADU	8.73	77.82	41.4
318	43377	KANYAKUMARI	TAMIL NADU	8.08	77.05	39.4
319	43379	THOOTHUKUDI NEW PORT	TAMIL NADU	8.75	78.18	40.5
320	43025	ADILABAD	TELANGANA	19.65	78.53	47.3

Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
321	43081	NIZAMABAD	TELANGANA	18.67	78.1	47
322	43083	MEDAK	TELANGANA	18.05	78.27	46.3
323	43086	RAMAGUNDAM	TELANGANA	18.77	79.43	47.2
324	43087	HANAMKONDA	TELANGANA	18.02	79.57	46.5
325	43128	HYDERABAD	TELANGANA	17.47	78.47	44.5
326	43133	NALGONDA	TELANGANA	17	79.25	47
327	43136	BHADRACHALAM (KOTHAGUDAM)	TELANGANA	17.67	80.88	47.5
328	43137	KHAMMAM	TELANGANA	17.25	80.15	46.7
329	43168	MAHBOOB NAGAR	TELANGANA	16.75	78	45.3
330	42618	KAILASHAHAR	TRIPURA	24.32	92	38.9
331	42724	AGARTALA	TRIPURA	23.88	91.25	40
332	42138	MUZAFFAR NAGAR	UTTAR PRADESH	29.47	77.73	44.2
333	42139	MEERUT	UTTAR PRADESH	28.97	77.73	45
334	42143	NAJIBABAD	UTTAR PRADESH	29.62	78.38	43.9
335	42187	MORADABAD	UTTAR PRADESH	28.83	78.75	45
336	42189	BAREILLY	UTTAR PRADESH	28.37	79.4	46.2
337	42259	AGRA (TAJ)	UTTAR PRADESH	27.17	78.03	47.7
338	42262	ALIGARH	UTTAR PRADESH	27.88	78.07	47.5
339	42266	SHAHJAHANPUR	UTTAR PRADESH	27.88	79.9	45.4
340	42267	FATEHGARH (FARRUKHABAD)	UTTAR PRADESH	27.4	79.58	48.7
341	42270	LAKHIMPUR KHERI	UTTAR PRADESH	27.9	80.8	47.1
342	42271	HARDOI	UTTAR PRADESH	27.38	80.17	46
343	42273	BAHRAICH	UTTAR PRADESH	27.57	81.6	45.7
344	42364	ETAWAH	UTTAR PRADESH	26.45	79.02	48.6
345	42366	KANPUR	UTTAR PRADESH	26.43	80.37	42.8
346	42369	LUCKNOW	UTTAR PRADESH	26.75	80.88	46.3
347	42370	BARABANKI	UTTAR PRADESH	26.93	81.18	46
348	42372	FURSATGANJ	UTTAR PRADESH	26.25	81.37	46.6
349	42377	SULTANPUR	UTTAR PRADESH	26.25	82	47
350	42379	GORAKHPUR	UTTAR PRADESH	26.75	83.37	45.2
351	42384	BALLIA (MIRDHA)	UTTAR PRADESH	25.75	84.17	44.9
352	42463	JHANSI	UTTAR PRADESH	25.45	78.62	48.1
353	42468	ORAI	UTTAR PRADESH	25.98	79.5	47.4
354	42469	HAMIRPUR	UTTAR PRADESH	25.95	80.15	48.2
355	42471	FATEHPUR	UTTAR PRADESH	25.1	80.83	46.6
356	42473	BANDA	UTTAR PRADESH	25.47	80.37	49.2
357	42474	PRAYAGRAJ (ALLAHABAD)	UTTAR PRADESH	25.45	81.73	48.9
358	42479	VARANASI (A)(BABATPUR)	UTTAR PRADESH	25.45	82.87	47
359	42482	GAZIPUR	UTTAR PRADESH	25.4	83.55	46.4
360	42483	VARANASI	UTTAR PRADESH	25.3	83.02	46.2
361	42589	CHURK	UTTAR PRADESH	24.65	83.1	47.4
362	42111	DEHRADUN	UTTARAKHAND	30.32	78.03	43.1
363	42114	TEHRI	UTTARAKHAND	30.38	78.43	36.5
364	42140	ROORKEE	UTTARAKHAND	29.85	77.88	44.1
365	42147	MUKTESHWAR	UTTARAKHAND	29.47	79.65	32.5
366	42148	PANTNAGAR	UTTARAKHAND	29.03	79.47	43.2
367	42295	DARJEELING	WEST BENGAL	27.05	88.27	27.4
368	42296	KALIMPONG	WEST BENGAL	27.07	88.47	35
369	42399	JALPAIGURI	WEST BENGAL	26.53	88.72	38.9
370	42403	COOCH BEHAR	WEST BENGAL	26.33	89.47	39.1
371	42503	MALDAH	WEST BENGAL	25.03	88.13	43.1
372	42506	BALURGHAT	WEST BENGAL	25.5	88.78	42.2
373	42603	BERHAMPORE	WEST BENGAL	24.13	88.27	44
374	42706	BANKURA	WEST BENGAL	23.23	87.07	46.7
375	42708	SRINIKETAN	WEST BENGAL	23.65	87.7	46
376	42709	BURDWAN	WEST BENGAL	23.23	87.85	45.2
377	42711	KRISHNAGAR	WEST BENGAL	23.4	88.52	42.6
378	42712	ASANSOL	WEST BENGAL	23.68	87	44.4
379	42714	BAGATI	WEST BENGAL	22.98	88.37	43.1
380	42803	MEDNAPUR	WEST BENGAL	22.42	87.32	45.1
381	42806	HALDIA	WEST BENGAL	22.07	88.07	40.5
382	42807	KOLKATA (ALIPORE)	WEST BENGAL	22.53	88.33	43
383	42809	KOLKATA (DUM DUM)	WEST BENGAL	22.65	88.45	43.1
384	42811	DIAMOND HARBOUR	WEST BENGAL	22.18	88.2	43

Highest Maximum Temperature [Date Period 2001-2023]						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SN	Station Index	IMD Station Name	State	Latitude (°N)	Longitude (°E)	Highest Tmax (°C)
385	42812	CANNING	WEST BENGAL	22.25	88.67	42.2
386	42900	CONTAI	WEST BENGAL	21.78	87.75	43.6
387	42901	DIGHA	WEST BENGAL	21.83	87.5	41.3
388	42903	SAGAR ISLAND	WEST BENGAL	21.75	88.05	38.6
389	42705	PURULIA	WEST BENGAL	23.5	86.37	45.5

Annexure-III

Computed higher extremum Temperature based on Annexure-II						
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
1	43309	MAYABUNDER	ANDAMAN & NICOBAR	38.2	39	40
2	43310	LONG ISLAND	ANDAMAN & NICOBAR	39	39	40
3	43333	PORT BLAIR	ANDAMAN & NICOBAR	36.8	37	38
4	43364	HUTBAY	ANDAMAN & NICOBAR	39.6	40	41
5	43382	NANCOWRY	ANDAMAN & NICOBAR	39	39	40
6	43367	CAR NICOBAR	ANDAMAN & NICOBAR	38.1	39	40
7	14223	TIRUMALA	ANDHRA PRADESH	36.8	37	38
8	43105	KALINGAPATNAM	ANDHRA PRADESH	42.3	43	44
9	43147	TUNI	ANDHRA PRADESH	47.5	48	49
10	43149	VISAKHAPATNAM, AP	ANDHRA PRADESH	45	45	46
11	43150	VISAKHAPATNAM	ANDHRA PRADESH	40.5	41	42
12	43177	RENTACHINTALA	ANDHRA PRADESH	49.9	50	51
13	43181	GANNAVARAM	ANDHRA PRADESH	48.8	49	50
14	43182	NANDIGAMA	ANDHRA PRADESH	47.1	48	49
15	43185	MACHILIPATNAM	ANDHRA PRADESH	47.6	48	49
16	43187	NARSAPUR	ANDHRA PRADESH	45.3	46	47
17	43189	KAKINADA	ANDHRA PRADESH	47.4	48	49
18	43212	NANDYAL	ANDHRA PRADESH	46.6	47	48
19	43213	KURNOOL	ANDHRA PRADESH	45.3	46	47
20	43220	BAPATLA	ANDHRA PRADESH	47	47	48
21	43221	ONGOLE	ANDHRA PRADESH	47.4	48	49
22	43237	ANANTAPUR	ANDHRA PRADESH	44.5	45	46
23	43241	KADAPPA	ANDHRA PRADESH	44.9	45	46
24	43243	KAVALI	ANDHRA PRADESH	47.2	48	49
25	43245	NELLORE	ANDHRA PRADESH	46.5	47	48
26	43271	AROGYAVARAM	ANDHRA PRADESH	41.5	42	43
27	43275	TIRUPATI	ANDHRA PRADESH	45.7	46	47
28	42220	PASSIGHAT	ARUNACHAL PRADESH	38.4	39	40
29	42308	ITANAGAR	ARUNACHAL PRADESH	39.5	40	41
30	42529	DEOMALI	ARUNACHAL PRADESH	39.6	40	41
31	42309	NORTH LAKHIMPUR	ASSAM	39.9	40	41
32	42314	MOHANBARI	ASSAM	39.8	40	41
33	42404	DHUBRI	ASSAM	39.3	40	41
34	42407	GOALPARA	ASSAM	37	37	38
35	42408	RANGIA	ASSAM	38	38	39
36	42409	TANGLA	ASSAM	38.2	39	40
37	42410	GUWAHATI	ASSAM	40.6	41	42
38	42413	MAZBAT	ASSAM	38.4	39	40
39	42414	CHAPARMUKH	ASSAM	39.7	40	41
40	42415	TEZPUR	ASSAM	39.2	40	41
41	42420	GOLAGHAT	ASSAM	38	38	39
42	42423	JORHAT	ASSAM	38.5	39	40
43	42523	LUMDING	ASSAM	38	38	39
44	42619	SILCHAR	ASSAM	39.8	40	41
45	42387	MUZAFFARPUR	BIHAR	42.8	43	44
46	42391	DARBHANGA	BIHAR	41.6	42	43
47	42393	SUPAUL	BIHAR	41.7	42	43
48	42395	FORBESGANJ	BIHAR	43.2	44	45
49	42488	CHAPRA	BIHAR	43.1	44	45
50	42492	PATNA	BIHAR	45.6	46	47
51	42498	BHAGALPUR	BIHAR	45.6	46	47
52	42499	SABOUR	BIHAR	44.1	45	46
53	42500	PURNEA	BIHAR	43.5	44	45
54	42588	DEHRI	BIHAR	46.8	47	48
55	42591	GAYA	BIHAR	46.7	47	48
56	42693	AMBIKAPUR	CHHATTISGARH	44.8	45	46
57	42779	PENDRA ROAD	CHHATTISGARH	44.6	45	46
58	42782	BILASPUR	CHHATTISGARH	49.3	50	51
59	42872	RAIPUR (MANA)	CHHATTISGARH	47.2	48	49
60	42874	RAIPUR	CHHATTISGARH	46.9	47	48
61	42876	DURG	CHHATTISGARH	46.4	47	48
62	42948	RAJNANDGAON	CHHATTISGARH	46.1	47	48

Computed higher extremum Temperature based on Annexure-II

(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
63	43041	JAGDALPUR	CHHATTISGARH	45.5	46	47
64	42180	NEW DELHI (AYANAGAR)	DELHI	47	47	48
65	42181	NEW DELHI (PALAM)	DELHI	48	48	49
66	42182	NEW DELHI (SAFDARJUNG)	DELHI	46	46	47
67	42184	NEW DELHI (RIDGE)	DELHI	47.2	48	49
68	43192	PANJIM	GOA	39.2	40	41
69	43196	MORMUGAO	GOA	38.4	39	40
70	42539	DEESA	GUJARAT	48	48	49
71	42631	NALIYA	GUJARAT	44.2	45	46
72	42634	BHUJ	GUJARAT	46	46	47
73	42638	KANDLA (A)	GUJARAT	48.4	49	50
74	42639	NEW KANDLA	GUJARAT	45.9	46	47
75	42647	AHMEDABAD	GUJARAT	48	48	49
76	42651	IDAR	GUJARAT	48.5	49	50
77	42654	GANDHINAGAR	GUJARAT	48	48	49
78	42730	OKHA	GUJARAT	37.5	38	39
79	42731	DWARKA	GUJARAT	39.8	40	41
80	42737	RAJKOT	GUJARAT	46	46	47
81	42740	SURENDRANAGAR	GUJARAT	47.8	48	49
82	42744	VALLABH VIDYANAGAR	GUJARAT	46.6	47	48
83	42748	VADODARA (A)	GUJARAT	46.2	47	48
84	42830	PORBANDAR (A)	GUJARAT	44.4	45	46
85	42832	KESHOD	GUJARAT	45.5	46	47
86	42834	AMRELI	GUJARAT	46.8	47	48
87	42837	MAHUVA	GUJARAT	43.4	44	45
88	42838	BHAVNAGAR	GUJARAT	45.2	46	47
89	42840	SURAT	GUJARAT	44.2	45	46
90	42909	VERAVAL	GUJARAT	43.4	44	45
91	42914	DIU	GUJARAT	42.3	43	44
92	42915	VALSAD	GUJARAT	43.1	44	45
93	42103	AMBALA	HARYANA	45.9	46	47
94	42105	CHANDIGARH	HARYANA	45.1	46	47
95	42131	HISAR	HARYANA	48	48	49
96	42137	KARNAL	HARYANA	46	46	47
97	42176	ROHTAK	HARYANA	46.8	47	48
98	42177	NARNAUL	HARYANA	47	47	48
99	42062	DHARAMSHALA	HIMACHAL PRADESH	38.6	39	40
100	42065	MANALI	HIMACHAL PRADESH	34.6	35	36
101	42066	KALPA	HIMACHAL PRADESH	30.7	31	32
102	42076	KANGRA (A)	HIMACHAL PRADESH	42.3	43	44
103	42077	UNA	HIMACHAL PRADESH	45.2	46	47
104	42078	MANDI	HIMACHAL PRADESH	42.2	43	44
105	42079	SUNDERNAGAR	HIMACHAL PRADESH	42.1	43	44
106	42081	BHUNTAR	HIMACHAL PRADESH	39	39	40
107	42083	SHIMLA	HIMACHAL PRADESH	32.4	33	34
108	42084	SHIMLA (A)	HIMACHAL PRADESH	37.7	38	39
109	42104	NAHAN	HIMACHAL PRADESH	40.9	41	42
110	42106	SOLAN (NAUNI)	HIMACHAL PRADESH	39	39	40
111	42026	GULMARG	JAMMU AND KASHMIR	31.2	32	33
112	42027	SRINAGAR	JAMMU AND KASHMIR	36.5	37	38
113	42028	PAHALGAM	JAMMU AND KASHMIR	31.3	32	33
114	42031	KUPWARA	JAMMU AND KASHMIR	36.9	37	38
115	42034	LEH	JAMMU AND KASHMIR	36.6	37	38
116	42043	BATOTE	JAMMU AND KASHMIR	35.4	36	37
117	42044	QAZIGUND	JAMMU AND KASHMIR	34.6	35	36
118	42045	BANIHAL	JAMMU AND KASHMIR	36	36	37
119	42046	KOKERNAG	JAMMU AND KASHMIR	34.9	35	36
120	42048	BHADERWAH	JAMMU AND KASHMIR	39.3	40	41
121	42054	KATRA	JAMMU AND KASHMIR	42.6	43	44
122	42056	JAMMU	JAMMU AND KASHMIR	46.3	47	48
123	42060	KATHUA	JAMMU AND KASHMIR	48	48	49
124	42587	DALTONGANJ	JHARKHAND	47	47	48
125	42701	RANCHI	JHARKHAND	43.2	44	45
126	42795	CHAIBASA	JHARKHAND	44	44	45

Computed higher extremum Temperature based on Annexure-II

(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
127	42798	JAMSHEDPUR	JHARKHAND	46.2	47	48
128	42799	JAMSHEDPUR CITY	JHARKHAND	45.9	46	47
129	43121	GULBARGA	KARNATAKA	47.3	48	49
130	43125	BIDAR	KARNATAKA	44	44	45
131	43160	BAGALKOT	KARNATAKA	42	42	43
132	43161	BIJAPUR	KARNATAKA	43	43	44
133	43169	RAICHUR	KARNATAKA	44.4	45	46
134	43197	BELGAUM	KARNATAKA	40.1	41	42
135	43198	BELGAUM (A)	KARNATAKA	40.2	41	42
136	43200	DHARWAD	KARNATAKA	40.9	41	42
137	43201	GADAG	KARNATAKA	40.5	41	42
138	43225	KARWAR	KARNATAKA	40.2	41	42
139	43226	HONAVAR	KARNATAKA	38.8	39	40
140	43227	HAVERI	KARNATAKA	41.2	42	43
141	43228	KOPPAL	KARNATAKA	42.6	43	44
142	43229	SHIRALI	KARNATAKA	38.9	39	40
143	43230	DAVANGERE	KARNATAKA	40.5	41	42
144	43233	CHITRADURGA	KARNATAKA	41	41	42
145	43258	SHIMOGA	KARNATAKA	44	44	45
146	43259	BALEHONNUR	KARNATAKA	38.2	39	40
147	43260	CHICKMAGALUR	KARNATAKA	36.5	37	38
148	43263	HASSAN	KARNATAKA	37.4	38	39
149	43272	CHINTAMANI	KARNATAKA	40	40	41
150	43284	MANGALORE (BAJPE)(A)	KARNATAKA	38.2	39	40
151	43285	MANGALORE (PANAMBUR)	KARNATAKA	39.6	40	41
152	43289	MANDYA	KARNATAKA	39.6	40	41
153	43291	MYSORE	KARNATAKA	39.9	40	41
154	43293	BENGALURU (KIA)	KARNATAKA	38.6	39	40
155	43295	BENGALURU	KARNATAKA	39.2	40	41
156	43296	BENGALURU (HAL)	KARNATAKA	37.8	38	39
157	43314	KOZHIKODE	KERALA	39.2	40	41
158	43315	KANNUR	KERALA	39.2	40	41
159	43320	KOZHIKODE (A)	KERALA	37.8	38	39
160	43335	PALAKKAD	KERALA	41.9	42	43
161	43336	KOCHI (CIAL)	KERALA	38.1	39	40
162	43352	ALAPPUZHA	KERALA	38	38	39
163	43354	PUNALUR	KERALA	40.4	41	42
164	43355	KOTTAYAM	KERALA	38.6	39	40
165	43357	THRISSUR (VELLANIKKARA)	KERALA	40.4	41	42
166	43371	THIRUVANANTHAPURAM	KERALA	38.2	39	40
167	43372	THIRUVANANTHAPURAM (A)	KERALA	35.6	36	37
168	43266	AGATTI	Lakshadweep	38	38	39
169	43311	AMINIDIVI	Lakshadweep	37.6	38	39
170	43369	MINICOY	Lakshadweep	35.6	36	37
171	42361	GWALIOR	MADHYA PRADESH	47.8	48	49
172	42456	SHEOPUR	MADHYA PRADESH	47.8	48	49
173	42459	SHIVPURI	MADHYA PRADESH	47	47	48
174	42460	DATIA	MADHYA PRADESH	48.5	49	50
175	42467	NOWGONG	MADHYA PRADESH	47.9	48	49
176	42557	RAJGARH	MADHYA PRADESH	46.8	47	48
177	42559	GUNA	MADHYA PRADESH	47.6	48	49
178	42562	TIKAMGARH	MADHYA PRADESH	47	47	48
179	42567	KHAJURAHO	MADHYA PRADESH	48	48	49
180	42571	SATNA	MADHYA PRADESH	48.4	49	50
181	42574	REWA	MADHYA PRADESH	47.5	48	49
182	42577	SIDHI	MADHYA PRADESH	52.3	53	54
183	42661	RATLAM	MADHYA PRADESH	44.9	45	46
184	42662	UJJAIN	MADHYA PRADESH	46	46	47
185	42665	SHAJAPUR	MADHYA PRADESH	47.3	48	49
186	42667	BHOPAL (BAIRAGARH)	MADHYA PRADESH	46.7	47	48
187	42671	SAGAR	MADHYA PRADESH	47	47	48
188	42672	RAISEN	MADHYA PRADESH	47	47	48
189	42674	DAMOH	MADHYA PRADESH	47.7	48	49
190	42675	JABALPUR	MADHYA PRADESH	46.8	47	48

Computed higher extremum Temperature based on Annexure-II

(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
191	42679	UMARIA	MADHYA PRADESH	48.7	49	50
192	42715	MALANJKHAND	MADHYA PRADESH	45.6	46	47
193	42752	DHAR	MADHYA PRADESH	46.4	47	48
194	42753	ALIRAJPUR	MADHYA PRADESH	44.2	45	46
195	42754	INDORE	MADHYA PRADESH	44.5	45	46
196	42763	HOSHANGABAD	MADHYA PRADESH	47.7	48	49
197	42767	PACHMARHI	MADHYA PRADESH	41.2	42	43
198	42768	CHHINDWARA	MADHYA PRADESH	47.6	48	49
199	42770	NARSINGHPUR	MADHYA PRADESH	47	47	48
200	42771	SEONI	MADHYA PRADESH	44.5	45	46
201	42776	MANDLA	MADHYA PRADESH	46.1	47	48
202	42849	KHARGONE	MADHYA PRADESH	47.9	48	49
203	42855	KHANDWA	MADHYA PRADESH	47.5	48	49
204	42860	BETUL	MADHYA PRADESH	44.7	45	46
205	42851	JALGAON	MAHARASHTRA	46.9	47	48
206	42867	NAGPUR	MAHARASHTRA	47.9	48	49
207	42871	GONDIA	MAHARASHTRA	47.5	48	49
208	42921	NASHIK	MAHARASHTRA	42.8	43	44
209	42925	MALEGAON	MAHARASHTRA	46	46	47
210	42931	BULDHANA	MAHARASHTRA	44.2	45	46
211	42933	AKOLA	MAHARASHTRA	47.2	48	49
212	42935	WASHIM	MAHARASHTRA	45.4	46	47
213	42937	AMRAVATI	MAHARASHTRA	49.8	50	51
214	42939	WARDHA	MAHARASHTRA	48	48	49
215	42943	YAVATMAL	MAHARASHTRA	45.8	46	47
216	42946	BRAHMAPURI	MAHARASHTRA	49	49	50
217	43001	DAHANU	MAHARASHTRA	40.9	41	42
218	43003	MUMBAI (SANTACRUZ)	MAHARASHTRA	41.3	42	43
219	43005	T.B.I.A.	MAHARASHTRA	43.2	44	45
220	43009	AHMEDNAGAR	MAHARASHTRA	44.3	45	46
221	43014	AURANGABAD (CHIKALTHANA)	MAHARASHTRA	43.8	44	45
222	43017	PARBHANI	MAHARASHTRA	47.2	48	49
223	43021	NANDED	MAHARASHTRA	46	46	47
224	43029	CHANDRAPUR	MAHARASHTRA	49	49	50
225	43057	MUMBAI (COLABA)	MAHARASHTRA	41.6	42	43
226	43058	ALIBAG	MAHARASHTRA	40.1	41	42
227	43062	BHIRA	MAHARASHTRA	49	49	50
228	43063	PUNE	MAHARASHTRA	43	43	44
229	43069	BARAMATI	MAHARASHTRA	42.8	43	44
230	43071	JEUR	MAHARASHTRA	45.3	46	47
231	43075	OSMANABAD	MAHARASHTRA	46.7	47	48
232	43076	UDGIR	MAHARASHTRA	46.2	47	48
233	43109	HARNAI	MAHARASHTRA	40.4	41	42
234	43110	RATNAGIRI	MAHARASHTRA	40.6	41	42
235	43111	MAHABALESHWAR	MAHARASHTRA	36.2	37	38
236	43113	SATARA	MAHARASHTRA	42.6	43	44
237	43117	SOLAPUR	MAHARASHTRA	45.1	46	47
238	43157	KOLHAPUR	MAHARASHTRA	41.2	42	43
239	43158	SANGLI	MAHARASHTRA	43	43	44
240	43193	VENGURLA	MAHARASHTRA	38.9	39	40
241	42623	IMPHAL	MANIPUR	35.9	36	37
242	42512	BARAPANI	MEGHALAYA	35.2	36	37
243	42515	CHERRAPUNJEE	MEGHALAYA	32.1	33	34
244	42516	SHILLONG	MEGHALAYA	29.7	30	31
245	42726	LENGPUI	MIZORAM	38.8	39	40
246	42727	AIZWAL	MIZORAM	35.5	36	37
247	42527	KOHIMA	NAGALAND	32.4	33	34
248	42792	SUNDERGARH	ORISSA	47.6	48	49
249	42881	HIRAKUD	ORISSA	46.6	47	48
250	42883	SAMBALPUR	ORISSA	49	49	50
251	42886	JHARSUGUDA	ORISSA	47	47	48
252	42891	KEONJHAR	ORISSA	44.5	45	46
253	42894	BARIPADA	ORISSA	46.2	47	48
254	42895	BALASORE	ORISSA	46.4	47	48

Computed higher extremum Temperature based on Annexure-II						
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
255	42961	TITLAGARH	ORISSA	50.1	51	52
256	42963	BOLANGIR	ORISSA	47.6	48	49
257	42966	PHULBANI	ORISSA	44	44	45
258	42969	ANGUL	ORISSA	46.2	47	48
259	42970	CUTTACK	ORISSA	45.3	46	47
260	42971	BHUBANESWAR	ORISSA	46.7	47	48
261	42973	CHANDABALI	ORISSA	47.2	48	49
262	42976	PARADEEP	ORISSA	42.4	43	44
263	43042	BHAWANIPATNA	ORISSA	47	47	48
264	43049	GOPALPUR	ORISSA	42.6	43	44
265	43053	PURI	ORISSA	43.6	44	45
266	43097	KORAPUT	ORISSA	42.6	43	44
267	42071	AMRITSAR	PUNJAB	48	48	49
268	42099	LUDHIANA	PUNJAB	46.5	47	48
269	42101	PATIALA	PUNJAB	46.3	47	48
270	42123	SRIGANGANAGAR	RAJASTHAN	49.9	50	51
271	42165	BIKANER	RAJASTHAN	49.4	50	51
272	42170	CHURU	RAJASTHAN	49	49	50
273	42174	PILANI	RAJASTHAN	47.4	48	49
274	42237	PHALODI	RAJASTHAN	48	48	49
275	42249	SIKAR	RAJASTHAN	47.1	48	49
276	42258	BHARATPUR	RAJASTHAN	46.8	47	48
277	42328	JAISALMER	RAJASTHAN	49	49	50
278	42339	JODHPUR	RAJASTHAN	48.8	49	50
279	42343	AJMER	RAJASTHAN	46	46	47
280	42348	JAIPUR	RAJASTHAN	47	47	48
281	42435	BARMER	RAJASTHAN	49.1	50	51
282	42441	JAWAI BANDH	RAJASTHAN	48	48	49
283	42447	BHILWARA	RAJASTHAN	47	47	48
284	42450	BUNDI	RAJASTHAN	48	48	49
285	42452	KOTA	RAJASTHAN	48.4	49	50
286	42453	SAWAI MADHOPUR	RAJASTHAN	47.3	48	49
287	42540	MOUNT ABU	RAJASTHAN	40.4	41	42
288	42542	UDAIPUR (A) (DABOK)	RAJASTHAN	46	46	47
289	42546	CHITTORGARH	RAJASTHAN	47.4	48	49
290	42217	TADONG	SIKKIM	34.5	35	36
291	42299	GANGTOK	SIKKIM	29.3	30	31
292	15217	KAMACHIPURAM	TAMIL NADU	42	42	43
293	43277	TIRUTTANI	TAMIL NADU	48.6	49	50
294	43278	CHENNAI (NUNGAMBAKKAM)	TAMIL NADU	45	45	46
295	43279	CHENNAI (MEENAMBAKKAM)	TAMIL NADU	49.1	50	51
296	43301	DHARMAPURI	TAMIL NADU	41.1	42	43
297	43302	TIRUPATTUR	TAMIL NADU	42.8	43	44
298	43303	VELLORE	TAMIL NADU	45	45	46
299	43317	UDAGAMANDALAM	TAMIL NADU	27	27	28
300	43318	COONOOR	TAMIL NADU	29	29	30
301	43321	COIMBATORE (A)	TAMIL NADU	39.8	40	41
302	43325	SALEM	TAMIL NADU	42.8	43	44
303	43329	CUDDALORE	TAMIL NADU	42.3	43	44
304	43331	PUDUCHERRY	TAMIL NADU	43.4	44	45
305	43338	ERODE	TAMIL NADU	41.8	42	43
306	43339	KODAIKANAL	TAMIL NADU	29.3	30	31
307	43341	VALPARAI	TAMIL NADU	34	34	35
308	43342	KARUR PARAMATHI	TAMIL NADU	43	43	44
309	43344	TIRUCHIRAPALLI (A)	TAMIL NADU	42.9	43	44
310	43346	KARAIKAL	TAMIL NADU	42.4	43	44
311	43347	NAGAPATTINAM	TAMIL NADU	41.2	42	43
312	43348	ADIRAMAPATTINAM	TAMIL NADU	40.6	41	42
313	43358	KOVILANKULAM	TAMIL NADU	43	43	44
314	43360	MADURAI (A)	TAMIL NADU	42.3	43	44
315	43361	TONDI	TAMIL NADU	40.4	41	42
316	43363	PAMBAN	TAMIL NADU	38.8	39	40
317	43376	PALAYAMKOTTAI	TAMIL NADU	41.4	42	43
318	43377	KANYAKUMARI	TAMIL NADU	39.4	40	41

Computed higher extremum Temperature based on Annexure-II						
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
319	43379	THOOTHUKUDI NEW PORT	TAMIL NADU	40.5	41	42
320	43025	ADILABAD	TELANGANA	47.3	48	49
321	43081	NIZAMABAD	TELANGANA	47	47	48
322	43083	MEDAK	TELANGANA	46.3	47	48
323	43086	RAMAGUNDAM	TELANGANA	47.2	48	49
324	43087	HANAMKONDA	TELANGANA	46.5	47	48
325	43128	HYDERABAD	TELANGANA	44.5	45	46
326	43133	NALGONDA	TELANGANA	47	47	48
327	43136	BHADRACHALAM (KOTHAGUDAM)	TELANGANA	47.5	48	49
328	43137	KHAMMAM	TELANGANA	46.7	47	48
329	43168	MAHBOOB NAGAR	TELANGANA	45.3	46	47
330	42618	KAILASHAHAR	TRIPURA	38.9	39	40
331	42724	AGARTALA	TRIPURA	40	40	41
332	42138	MUZAFFAR NAGAR	UTTAR PRADESH	44.2	45	46
333	42139	MEERUT	UTTAR PRADESH	45	45	46
334	42143	NAJIBABAD	UTTAR PRADESH	43.9	44	45
335	42187	MORADABAD	UTTAR PRADESH	45	45	46
336	42189	BAREILLY	UTTAR PRADESH	46.2	47	48
337	42259	AGRA (TAJ)	UTTAR PRADESH	47.7	48	49
338	42262	ALIGARH	UTTAR PRADESH	47.5	48	49
339	42266	SHAHJAHANPUR	UTTAR PRADESH	45.4	46	47
340	42267	FATEHGARH (FARRUKHABAD)	UTTAR PRADESH	48.7	49	50
341	42270	LAKHIMPUR KHERI	UTTAR PRADESH	47.1	48	49
342	42271	HARDOI	UTTAR PRADESH	46	46	47
343	42273	BAHRAICH	UTTAR PRADESH	45.7	46	47
344	42364	ETAWAH	UTTAR PRADESH	48.6	49	50
345	42366	KANPUR	UTTAR PRADESH	42.8	43	44
346	42369	LUCKNOW	UTTAR PRADESH	46.3	47	48
347	42370	BARABANKI	UTTAR PRADESH	46	46	47
348	42372	FURSATGANJ	UTTAR PRADESH	46.6	47	48
349	42377	SULTANPUR	UTTAR PRADESH	47	47	48
350	42379	GORAKHPUR	UTTAR PRADESH	45.2	46	47
351	42384	BALLIA (MIRDHA)	UTTAR PRADESH	44.9	45	46
352	42463	JHANSI	UTTAR PRADESH	48.1	49	50
353	42468	ORAI	UTTAR PRADESH	47.4	48	49
354	42469	HAMIRPUR	UTTAR PRADESH	48.2	49	50
355	42471	FATEHPUR	UTTAR PRADESH	46.6	47	48
356	42473	BANDA	UTTAR PRADESH	49.2	50	51
357	42474	PRAYAGRAJ (ALLAHABAD)	UTTAR PRADESH	48.9	49	50
358	42479	VARANASI (A)(BABATPUR)	UTTAR PRADESH	47	47	48
359	42482	GAZIPUR	UTTAR PRADESH	46.4	47	48
360	42483	VARANASI	UTTAR PRADESH	46.2	47	48
361	42589	CHURK	UTTAR PRADESH	47.4	48	49
362	42111	DEHRADUN	UTTARAKHAND	43.1	44	45
363	42114	TEHRI	UTTARAKHAND	36.5	37	38
364	42140	ROORKEE	UTTARAKHAND	44.1	45	46
365	42147	MUKTESHWAR	UTTARAKHAND	32.5	33	34
366	42148	PANTNAGAR	UTTARAKHAND	43.2	44	45
367	42295	DARJEELING	WEST BENGAL	27.4	28	29
368	42296	KALIMPONG	WEST BENGAL	35	35	36
369	42399	JALPAIGURI	WEST BENGAL	38.9	39	40
370	42403	COOCH BEHAR	WEST BENGAL	39.1	40	41
371	42503	MALDAH	WEST BENGAL	43.1	44	45
372	42506	BALURGHAT	WEST BENGAL	42.2	43	44
373	42603	BERHAMPORE	WEST BENGAL	44	44	45
374	42706	BANKURA	WEST BENGAL	46.7	47	48
375	42708	SRINIKETAN	WEST BENGAL	46	46	47
376	42709	BURDWAN	WEST BENGAL	45.2	46	47
377	42711	KRISHNAGAR	WEST BENGAL	42.6	43	44
378	42712	ASANSOL	WEST BENGAL	44.4	45	46
379	42714	BAGATI	WEST BENGAL	43.1	44	45
380	42803	MEDNAPUR	WEST BENGAL	45.1	46	47
381	42806	HALDIA	WEST BENGAL	40.5	41	42
382	42807	KOLKATA (ALIPORE)	WEST BENGAL	43	43	44

Computed higher extremum Temperature based on Annexure-II						
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f)+1
SN	Station Index	IMD Station Name	State	Highest Tmax (°C)	Highest Tmax Rounded off to next integer (°C)	Highest Tmax after adding a margin of 1 °C (°C)
383	42809	KOLKATA (DUM DUM)	WEST BENGAL	43.1	44	45
384	42811	DIAMOND HARBOUR	WEST BENGAL	43	43	44
385	42812	CANNING	WEST BENGAL	42.2	43	44
386	42900	CONTAI	WEST BENGAL	43.6	44	45
387	42901	DIGHA	WEST BENGAL	41.3	42	43
388	42903	SAGAR ISLAND	WEST BENGAL	38.6	39	40
389	42705	PURULIA	WEST BENGAL	45.5	46	47