

Climate Adaptive Action Plans to Manage Heat Stress in Indian Cities

Date: 11th June-21st April, Time: 10.30 am – 2:00 pm

Venue: IRADe, Conference Room

Organized by: Integrated Research and Action for Development



सर्व विनाशं कारयति सा पराजयः



INDIAN
INSTITUTE OF
PUBLIC HEALTH
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Meeting Summary

Heat stress related deaths in India are rising at a rapid pace. With climate change, average temperatures and the frequency and severity of heat waves are predicted to increase. Heat waves, out of all the effects of climate change, are likely to cause most deaths. People in cities are particularly vulnerable to heat stress. There is little understanding and quantification of how heat stress affects health, work productivity and livelihoods of the economically and socially marginalized population. Such understanding requires multi-disciplinary research and is critical for formulating a Heat Stress Action Plan (HSAP).

The next stage for formulating the Heat Stress Action Plan for the City of Delhi is to collect Primary data. The Meeting was held on 11th June-21st April, Time: 10.30 am – 2:00 pm. The primary focus of the meeting was to train the staff for conducting the on ground survey.

The agenda for the meeting was:

1. Introduction to the project; Action Plan to manage Heat Stress in Indian Cities: Delhi
2. Discussion on the Questionnaire and Informal Sheet:
 - a. An individual and time variant (In Hindi)
3. Use of Psychometre for recording temperature and humidity data
4. GPS installation in android phone.
5. Use of the Epi Info platform.
6. Discussion on the Hot-Spot Location.



IRADe Team in discussion with the surveyors.

Participants

IRADe: Ms. Asha Kaushik, Ms. Ananya Mukherjee, Ms. Ananya Bhatia, Ms. Yashi Sharma, Ms. Deepika Laxme and Mr. Mohit Kumar.

Next Gen – Mr. Srikant Pandey, Mr. ANURAG Tiwari, Ms. Beena Vilash, Ms. Kanika Taneja, Ms. Madhu Taneja, Ms. Reema Singh and Ms. Suman Goel.

Major Discussions

1. Introduction to the project; Action Plan to manage Heat Stress in Indian Cities: Delhi

The meeting started with a project introduction and the purpose of survey. It was explained that the project will study the implications of heat stress and extreme heat on the health and livelihoods of vulnerable groups especially occupational workers, women and senior citizens living in urban slums – their poverty, dwellings and poor sanitation make them particularly vulnerable. The project will gather evidence and develop spatially differentiated adaptation plans and support planning and execution in three selected cities: Delhi, Bhubaneswar and Rajkot, chosen as representative of other cities in India.

The survey for Delhi is to be conducted by IRADe, within the 10 selected vulnerable sites.

2. Discussion on the Questionnaire and Informal Sheet:

Through the discussion it was cleared out that the total sample size of 300 is to be divided equally amongst all 10 sites. The study focuses on the vulnerable group of the city. All the 10 locations to be surveyed (as marked in the google map) were in detail explained with reference to the surrounding areas making it easier for them (Survey team) to locate each site.

Timeline for conducting survey:

The team was directed to note down the temperatures specifically on 12th and 19th between 10:00 a.m. to 11:00 a.m.

On 12th they need to cover - North, South and West parts of the city while,

On 19th they need to cover all four directions - North, South, East and West.

The survey questionnaires are of two kinds. The preliminary one has all household and project related questions in detail. The second survey form is to be conducted after 15 days from the date of commencement, followed by the third one with the same interval gap.

Both the questionnaires were discussed in detail. In the process, any kind of doubt or issue were appreciated and cleared out after a thorough discussion with the team members. Consent form needs to be signed by the respondents. The form was explained thoroughly and any doubts regarding the same were discussed.

3. Use of Psychometre for recording temperature and humidity data

To note the temperature readings of the respective locations, a detailed demo of Psychrometer was presented to the team. The Team is required to take the reading on 12th for the areas in West, South and North part of the city (one reading in each direction), While on 19th they are required to take the reading of all four East, West, South and North part of the City.

4. GPS installation in android phone.

GPS Logger and GPS Co-ordinate, respective Apps were introduced and functioning of the same were explained to the team. GPS location for each household needs to be taken and recorded while carrying out the exercise. It was explained that in the next rounds of survey the households with the same Latitude and longitude are to be surveyed.

5. Use of the Epi Info platform.

The collected data needs to be uploaded in EPI Info 7. The working of the same was introduced and explained in the meeting.

6. Discussion on the Hot-Spot Location.

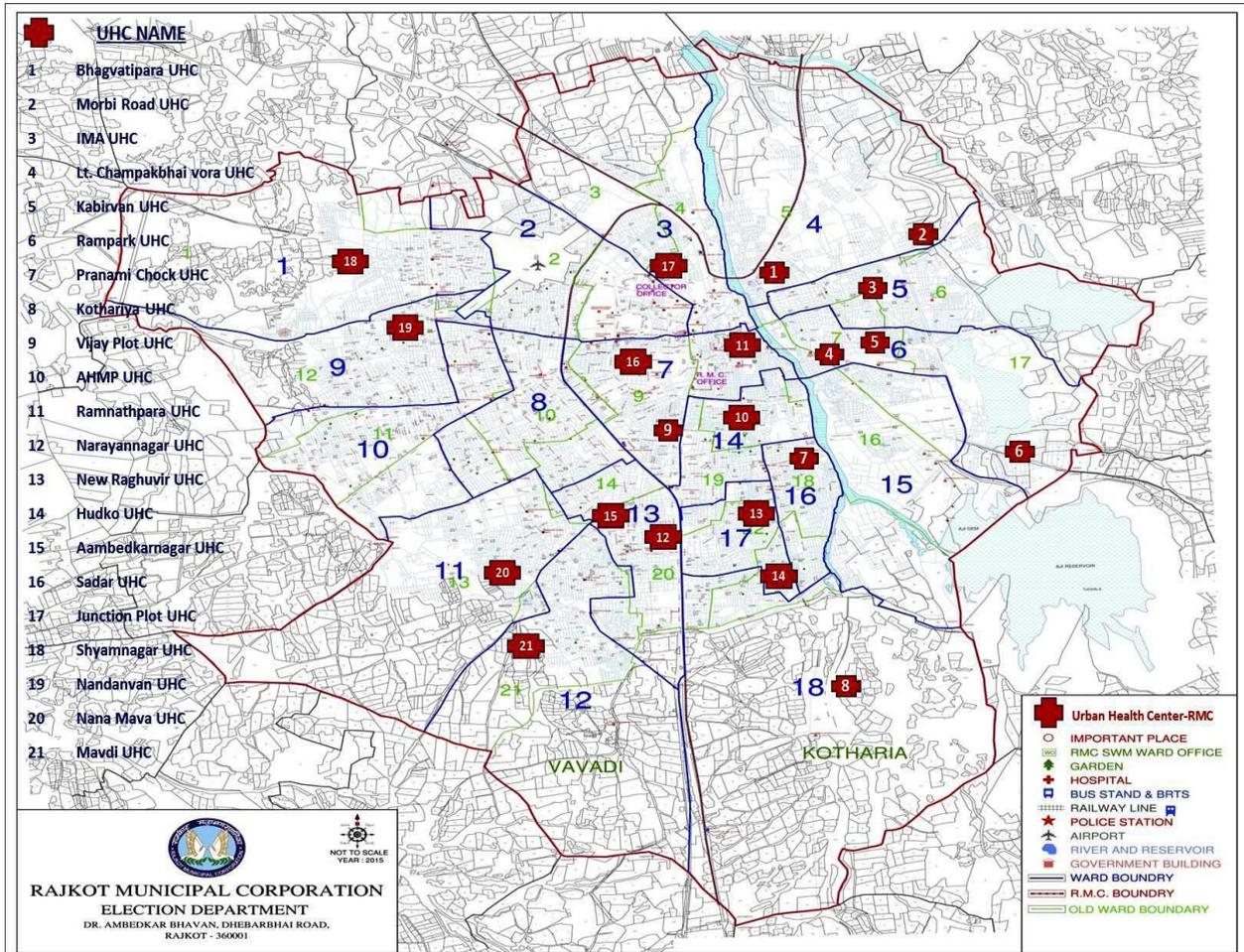
The team was briefed with the 10 potential locations to carry out survey, which are selected in accordance with the hotspot map of Delhi. It was explained that the sites are selected keeping in mind the vulnerable groups specially living in the slums. The selected slums are distributed all over the city making the universe even more diverse.

Major follow ups:

- Daily progress Report needs to be submitted at the end of the day.
- Temperature reading on the important days - 12th and 19th.
- After Preliminary data collection 2nd and 3rd round to be done with a gap of 15 days.
- To capture project related pictures throughout the survey exercise.
- 2 Psychrometer handed over to the team for 12th temperature reading. Another one to be collected them before 19th of this month.

Annexure 10: Hot Spot/ Survey location Maps

Rajkot



Delhi

