

To,

Subject – Stop rollout of 5G wireless network

Dear Sir / Madam,

1. We introduce ourselves as a composite group of concerned citizens. We are particularly concerned about the health crisis humanity is currently facing. We believe that the **health crisis will worsen with the rollout of 5G wireless network.**

2. In this letter we present evidence of the harmful effects of electromagnetic radiation and show that long-term safety checks for 5G wireless networks have not been carried out. By writing this letter, **we hope to garner your support and cooperation in stopping the rollout of 5G wireless network.**

3. A concise summary of how electromagnetic radiation affects the human body is given here.

- a. **Brain Cancer** – There is overwhelming evidence that exposure to wireless radiation increases risk of brain cancer.

<https://pubmed.ncbi.nlm.nih.gov/24064953/>

<https://doi.org/10.3892/ijo.2013.2025>

<https://pubmed.ncbi.nlm.nih.gov/28401165/>

<https://pubmed.ncbi.nlm.nih.gov/28504422/>

https://bioinitiative.org/wp-content/uploads/2017/11/Hardell-2017-Sec11-Update-Use_of_Wireless_Phones.pdf

- b. **Breast Cancer** - This is another common cancer associated with cell phone usage.

<https://pubmed.ncbi.nlm.nih.gov/24151509/>
<https://pubmed.ncbi.nlm.nih.gov/25703814/>
https://bioinitiative.org/wp-content/uploads/pdfs/sec14_2007_Evidence_For_Breast_Cancer_Promotion.pdf

- c. **Childhood Leukemia** – There is well established link between radiation and childhood leukemia.

https://bioinitiative.org/wp-content/uploads/pdfs/sec12_2012_Evidence_%20Childhood_Cancers.pdf

- d. **Heart Disease** – The heart is highly sensitive to electromagnetic radiation and conditions of cardiac arrhythmias (irregular heartbeats) and **blood pressure** can be developed.

Trends in Cardiovascular Medicine. Vol. 22, no. 3. (April 2012): 72–76
[https://doi.org/10.1016/S0140-6736\(98\)24025-6](https://doi.org/10.1016/S0140-6736(98)24025-6)

- e. **Ringling in the Ears (Tinnitus)** – Tinnitus is the perception of sound with the absence of any source. It is a common symptom of those who suffer from electromagnetic radiation hypersensitivity.

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0005026>
<https://pubmed.ncbi.nlm.nih.gov/20573849/>

- f. **Cataracts** – Cataract is a well-documented ailment associated with electromagnetic exposure.

<https://pubmed.ncbi.nlm.nih.gov/19517034/>

- g. **Disruption in Blood–Brain Barrier** – This barrier exists to protect the brain from any toxins – alcohol, pollutants or microbes that might be circulating in the blood. Electromagnetic radiation can increase permeability in this barrier, thereby causing a wide variety of problems such as brain cancer and

neurodegenerative processes like Alzheimer's disease.

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/jemt.1070270608>

https://bioinitiative.org/wp-content/uploads/pdfs/sec10_2012_Effects_Electromagnetic_Fields_Wireless_Communication.pdf

- h. **Impaired Sleep** – Insomnia is another common symptom of electromagnetic exposure.

<https://pubmed.ncbi.nlm.nih.gov/30501032/>

- i. **Neuropsychiatric Illnesses** – Apart from the effects of a weakened blood-brain barrier, exposure to electromagnetic fields can affect the brain in other common ways - including mental health challenges, such as anxiety, depression, hostility, and difficulty concentrating.

<https://ehjournal.biomedcentral.com/articles/10.1186/1476-069X-7-18>

<https://www.frontiersin.org/articles/10.3389/fpsyg.2014.00356/full>

- j. **Neurodegenerative Diseases** – Occupations with high electromagnetic field exposures are associated with increased likelihood of developing neurodegenerative diseases such as Alzheimer's, Parkinson's and amyotrophic lateral sclerosis.

<https://pubmed.ncbi.nlm.nih.gov/7677130/>

<https://n.neurology.org/content/47/6/1477>

<https://ehp.niehs.nih.gov/doi/10.1289/ehp.6039>

- k. **Infertility** – There has been a significant decline in sperm quality over the last few decades. Men tend to keep their cell phones in their pants pockets, very close to the genitals. While there are other factors, it is also clear that electromagnetic radiation plays a major role in the loss of male fertility.

<https://pubmed.ncbi.nlm.nih.gov/24982785/>

<https://pubmed.ncbi.nlm.nih.gov/17482179/>

<https://rbej.biomedcentral.com/articles/10.1186/s12958-018-0431-1>



<https://www.bmj.com/content/305/6854/609>

Not only is it harder to get pregnant when exposed to electromagnetic radiation, but the risk of miscarriage also increases.

<https://pubmed.ncbi.nlm.nih.gov/29235463/>

- i. **Pain in the skin** - 5G wireless technology will utilize millimeter waves, which have not been widely deployed before. These waves can penetrate 1 to 2 millimeters of human skin tissue and can cause pain in the skin.

<https://ehtrust.org/letter-fcc-dr-yael-stein-md-opposition-5g-spectrum-frontiers/>

https://www.telecompowergrab.org/uploads/3/8/5/9/38599771/5g_fact_sheet_v9.pdf

- m. **Children's Brains are at risk of damage** – Children's skulls are thinner than adult's skulls, also children have smaller heads in general. This means there is less distance for radiation to travel in order to penetrate more deeply into the brain. It is shown that children have a higher absorption rate compared to adults.

<https://pubmed.ncbi.nlm.nih.gov/21999884/>

- n. **Exposure Starts in Utero** – Children born of mothers who used cell phones during pregnancy experience increase in behavioral problems, hyperactivity, peer-related problems and emotional issues.

https://journals.lww.com/epidem/Fulltext/2008/07000/Prenatal_and_Postnatal_Exposure_to_Cell_Phone_Use.1.aspx

4. Electromagnetic radiation also affects other living organisms.

- a. **Bees** – Bee colonies exposed to cell phone radiation experience a significant decline in colony strength. The queen lays fewer eggs.

https://www.researchgate.net/publication/225187745_Changes_in_honey_bee_behaviour_and_biology_under_the_influence_of_cell_phone_radiations



<https://www.researchgate.net/publication/228510851> Electromagnetic Radiation Influences on Honeybees Apis mellifera

- b. **Plants** – Plants that are near cell towers experience damage such as alteration in the DNA and thinner cell walls.

<https://pubmed.ncbi.nlm.nih.gov/25050479/>

<https://www.sciencedirect.com/science/article/abs/pii/S0048969716317375>

<https://pubmed.ncbi.nlm.nih.gov/27650031/>

- c. **Animals and birds** – Many animals navigate by following the earth's magnetic fields. So, the increase in electromagnetic radiation can disrupt the innate navigating abilities of migrating birds and mice trying to remember where they made their nests.

<https://pubmed.ncbi.nlm.nih.gov/28978441/>

<https://www.nature.com/articles/srep09917>

Electromagnetic radiation has also been implicated in reducing the number of tadpoles that grow into frogs, the amount of milk produced by dairy cows and the areas where bats willingly fly.

<https://pubmed.ncbi.nlm.nih.gov/20560769/>

<http://www.electricalpollution.com/documents/Hillman/ShockingNews3-072004.pdf>

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0000297>

5. While the aforementioned list of harmful effects of electromagnetic radiation is concise, a **comprehensive collection of studies** is compiled at the EMF-Portal, which lists nearly 30,000 studies with more than 6,300 summaries.

<https://www.emf-portal.org/en>

Additionally, the science documenting the health effects of electromagnetic radiation, has been catalogued in the Bio Initiative Report by the Bio Initiative Working Group, a collective of 29 authors from 10 countries, including 21 PhDs.

<https://bioinitiative.org/>



6. Holding mobile towers as a health hazard, the **Rajasthan High Court** in a judgement dated 27.11.2012 (PIL Petition No.2774/2012 and Petition No.8697/2012) directed telecom service providers operating in the state to remove their towers falling in the vicinity of schools, hospitals and play grounds.

7. 5G uses millimeter waves, which can't travel very far. **A large number (around 20,000) low-orbit satellites** are required to transmit and receive signals to and from users on the Earth in order to offer blanket coverage of urban and rural areas. 5G network requires the installation of "small cell" stations every 300 feet or so on the ground. Homeowners can expect to end up with a 5G cell base mounted right outside or very near their homes. It is **not possible to opt out of this radiation** even by taking the extreme step of not using a smartphone.

<https://www.technocracy.news/5g-from-space-20000-satellites-to-blanket-the-earth/>

<http://www.stopglobalwifi.org/>

8. **The cell phone industry is employing strategies similar to that employed by the cigarette industry which had lied to the public for decades about the harms caused by cigarettes.** The cigarette industry had funded poorly designed research that concluded no ill-effects of cigarettes, had spent millions to sway legislators and had broadcasted the message that the science is inconclusive.

A comprehensive review of the strategies the cigarette industry had successfully employed that prematurely killed millions of people is available in the below link.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3490543/>

9. As per RTI reply by Indian Council of Medical Research (ICMR) (reference INCMR/R/E/21/00657) they have not done studies on effect of 5G radiation on human body. As per RTI reply by National Biodiversity Authority (reference NBDAT/R/E/21/00019) they have no information on effects of 5G radiation on plants, insects, birds and animals. Though the RTI replies were in the year 2021, as of date **there is no information in the public domain on the nature of studies done by Indian official organizations on the effects of 5G radiation.**

10. **Insurance companies** are quietly updating their policies to include **electromagnetic radiation in the list of general insurance**



exclusions.

[https://s3.amazonaws.com/eakes-production/file_attachments/26/insurance ae canada feb 2015.pdf](https://s3.amazonaws.com/eakes-production/file_attachments/26/insurance%20ae%20canada%20feb%202015.pdf)
<https://joneakes.com/jons-fixit-database/2235-lloyds-of-london-bails-out-of-the-cell-phone-health-debate>

11. Fiber-optic wired infrastructure is a better alternative compared to wireless infrastructure. Wired infrastructure is inherently more future-proof, more reliable, more sustainable and more energy efficient. Fiber-optic cables have a proven ability to deliver 1.4 terabits of data per second, orders of magnitude higher than 5G.

<https://electromagnetichealth.org/wp-content/uploads/2018/02/ReInventing-Wires-1-25-18.pdf>
<https://spectrum.ieee.org/bell-labs-sets-new-record-for-internet-over-copper>

12. To conclude, 5G is a massive world-wide experiment, which is believed to harm humanity and the environment in the long run. **We appeal to you to stop 5G on earth and in space.**

Sincerely,

Awaken India Movement