



# Supply of DDT to South Africa for Malaria Control Program

## Why in News

Recently, **HIL (India) Limited** has supplied 20.60 Metric tonne of **Dichlorodiphenyltrichloroethane** (DDT), a fertilizer to South Africa for their [malaria](#) control program.

- The Company is further in the process of supplying DDT to Zimbabwe and Zambia in the current Financial Year 2020-21.

## HIL (India) Limited

- It is a PSU under the [Ministry of Chemicals and Fertilizers](#).
- It was incorporated in 1954 to manufacture and supply DDT to the Ministry of Health and Family Welfare for **malaria control programmes**.
- It is the **sole manufacturer of DDT** globally.

## Key Points

### ▪ DDT:

- It is a colorless, tasteless, and almost odorless crystalline chemical compound.
  - It was first synthesized in 1874 by the Austrian chemist Othmar Zeidler.
  - Its insecticidal action was discovered by the **Swiss chemist Paul Hermann Muller** in 1939.
  - He was awarded the **Nobel Prize** in Physiology or Medicine in 1948 "for his discovery of the high efficiency of DDT as a **contact poison against several arthropods**.
    - **Arthropods** are invertebrate species which include insects (Mosquitos), arachnids (Spiders), and crustaceans (Crabs) etc.
- Originally developed as **an insecticide**, it became infamous for its **environmental impacts**.
- A worldwide ban on agricultural use was formalized under the [Stockholm Convention on Persistent Organic Pollutants](#).
- However, its limited use in **disease vector control continues**, because of its **effectiveness in reducing malarial infections**.
- The [World Health Organisation](#) (WHO) recommends DDT as one of the efficient **Indoor Residual Spraying (IRS)** chemicals to **curb mosquito menace** and it is widely used by Southern African countries like South Africa, Zimbabwe, Zambia, Namibia, Mozambique and India.
  - IRS is a **core vector control intervention** that involves the application of a residual insecticide to internal walls and ceilings of housing structures where

malaria vectors may come into contact with the insecticide.

- **Supply to South Africa: South Africa will be utilising DDT** in three provinces bordering **Mozambique**.
- The region is **highly affected with Malaria** and it has reported **maximum morbidity and mortality**.
- **Supply to Other Countries:** HIL (India) Limited has recently exported **Malathion Technical 95%** to Iran under Government-to-Government initiative for the **Locust Control Programme** and also exported **Agrochemical-fungicide** to Latin American region.

## Malaria

- **Malaria** is caused by **Plasmodium parasites**.
  - The parasites are spread to people through the bites of infected **female Anopheles mosquitoes, called "malaria vectors"**.
- **Impact:** Malaria continues to be one of the **major public health problems** globally.
  - In 2018, an estimated **228 million cases** of malaria occurred worldwide.
  - Most of the **cases and deaths (93%)** were reported from **African Region**.
  - In the South East Asia Region, **India accounts** for the majority of cases and death.
  - According to **World Malaria Report 2019**, India reported 2.6 million fewer cases in 2018 **compared to 2017**. Thus the overall incidence of malaria in the country has reduced.
  - However, 7 states (**Uttar Pradesh, Jharkhand, Chhattisgarh, West Bengal, Gujarat, Odisha and Madhya Pradesh**) account for about 90% of the burden of malaria cases in India.

**Source: PIB**

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