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## **BUSINESS DOMAIN for NIFT / NID**

### **Reference #02 Covid Vaccines**

#### **Types of Covid-19 Vaccines:**

Several different types of potential vaccines for COVID-19 are in development, including:

- **Inactivated or weakened virus vaccines:**

Which use a form of the virus that has been inactivated or weakened so it doesn't cause disease, but still generates an immune response. There are 7 vaccines in this category, in different stages of trials.

- **Protein-based vaccines:**

Which use harmless fragments of proteins or protein shells that mimic the COVID-19 virus to safely generate an immune response. There are 2 vaccines in this category, in different stages of trials.

- **Viral vector vaccines:**

Which use a safe virus that cannot cause disease but serves as a platform to produce coronavirus proteins to generate an immune response. There are 5 vaccines in this category, in different stages of trials.

- **RNA and DNA vaccines:**

A cutting-edge approach that uses genetically engineered RNA or DNA to generate a protein that itself safely prompts an immune response. There are 3 vaccines in this category, in different stages of trials.

### Currently used Covid-19 Vaccines:

S.no,	Name of vaccine	Type	Name of the Company	Country
1.	Pfizer BioNTech (BNT162b2)	mRNA	Pfizer, Inc., and BioNTech	USA
2.	Moderna (mRNA 1273)	mRNA	ModernaTX, Inc., NIAID	USA
3.	Janssen JNJ-78436735	Viral Vector	Janssen Pharmaceuticals Companies of Johnson & Johnson	Netherland & Belgium
4.	<b>Covaxin (BBV152)</b>	<b>Inactivated</b>	<b>Bharat Biotech</b>	<b>India</b>
5.	Covishield/ Oxford/ Astrazeneca (AZD1222)	Non-replicating Viral vector	Aztra Zeneca, Serum Institute of India (SII)	
6.	Sputnik V (Gam-Covid-Vac)	Non-replicating Viral vector	Gamalaya Research Institute	Russia
7.	Sinopharm (BBIBP-CorV)	Inactivated	State owned lab	China
8.	Sinovac/ Coronavac	Inactivated	Sinovac	China
9.	Novavax (NVXCOV2373)	Protein based	Novavax	USA