



Summary

In 2021, U.S. exports to India totaled \$40.1 billion, a 48.2% (\$13.0 billion) increase from 2020; U.S. imports from India totaled \$73.3 billion, a 43.1% (\$22.0 billion) increase; and the trade deficit was \$33.1 billion, a 37.3% (\$9.0 billion) increase from a deficit of \$24.1 billion in 2020.

In 2021, **2.3%** of total U.S. exports were destined for India and **2.6%** of the total U.S. imports originated in India.

In 2021, U.S. exports of Oils, Minerals, Lime, and Cement nearly doubled, increasing by 95.2% from \$7.0 billion in 2020 to \$13.8 billion in 2021. Likewise, imports of the same commodities from India also increased by 73.4% from \$1.8 billion in 2020 to \$3.2 billion in 2021. India was the destination of 5.5% of total U.S. exports of these commodities.

In 2021, trade in Stone, Glass, Metals, and Pearls between the U.S. and India increased. Exports increased by 66.0% from \$4.4 billion in 2020 to \$7.4 billion in 2021, making India the destination of 7.8% of total U.S. exports of these commodities. Imports increased by 82.1% from \$9.4 billion to \$17.0 billion in 2021, representing 14.1% of total U.S. imports of these commodities.

In 2021, U.S. exports to India shipped under a BIS license exception authorization totaled \$325.8 million, decreasing from \$340.2 million in 2020. The usage of the license exception authorization for Encryption Commodities & Software was \$283.4 million in 2021, a decrease from \$297.0 million in 2020.

In 2021, BIS reviewed 1,120 export/re-export license applications (not including deemed export applications) for tangible items, software and technology valued at \$3.2 billion for India. License applications for India counted 2.8% of the World total by license count. BIS approved 955 (85.3% of the total applications) for \$3.1 billion, RWA totaled 154 for \$91.2 million. There were 11 license applications denied in 2021, valued at \$13.7 million.

In 2021, BIS approved 99 applications from Indian nationals for deemed exports, 12.1% of all approved deemed exports applications. There were 17 RWAs and no denials for deemed export applications.

In 2021 the top approved ECNNs (including deemed exports) to India by count include: 1C351 for Human and animal pathogens and “toxins” with 120 approvals; 9A610 for Military aircraft and related commodities with 106 approvals; and 5D002 for Software for information security with 83 approvals.

In 2021, the average processing time for India was 45 calendar days



I. Total U.S. Trade in goods with India

In 2021, U.S. exports to India totaled \$40.1 billion, a 48.2% (\$13.0 billion) increase from 2020; U.S. imports from India totaled \$73.3 billion, a 43.1% (\$22.0 billion) increase; and the trade deficit was \$33.1 billion, a 37.3% (\$9.0 billion) increase from a deficit of \$24.1 billion in 2020.



Source: U.S. Census Bureau USA Trade Portal February 15, 2022

In 2021, the level of both U.S. exports to India and U.S. imports from India exceeded the prior five-year average level by value not adjusted for inflation. The U.S. trade deficit with India is also higher than the prior five-year average level by value not adjusted for inflation.

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2016-2020 Average |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| EXPORTS | \$21,647.2 | \$25,647.8 | \$33,176.6 | \$34,221.4 | \$27,080.3 | \$40,130.1 | \$28,354.7 |
| Δvalue | -- | \$4,000.6 | \$7,528.8 | \$1,044.8 | -\$7,141.1 | \$13,049.8 | |
| Δpct | -- | 18.5% | 29.4% | 3.1% | -20.9% | 48.2% | |
| IMPORTS | \$46,024.2 | \$48,549.4 | \$54,249.6 | \$57,883.4 | \$51,204.3 | \$73,260.9 | \$51,582.2 |
| Δvalue | -- | \$2,525.2 | \$5,700.1 | \$3,633.8 | -\$6,679.1 | \$22,056.6 | |
| Δpct | -- | 5.5% | 11.7% | 6.7% | -11.5% | 43.1% | |
| BALANCE | (\$24,377.1) | (\$22,901.6) | (\$21,073.0) | (\$23,662.0) | (\$24,124.0) | (\$33,130.8) | (\$23,227.5) |
| Δvalue | -- | \$1,475.4 | \$1,828.6 | (\$2,589.0) | (\$462.0) | (\$9,006.8) | |
| Δpct | -- | -6.1% | -8.0% | 12.3% | 2.0% | 37.3% | |

Values in Millions of U.S. Dollars. Source: U.S. Census Bureau USA Trade Portal February 15, 2022



In 2021, of the \$40.1 billion in U.S. exports to India, the top commodity sectors were Oils, Minerals, Lime, and Cement (34.3%), Stone, Glass, Metals, and Pearls (18.4%), and Chemicals, Plastics, Rubber, and Leather products (13.9%).

In 2021, of the \$73.3 billion in U.S. imports from India, the top commodity sectors were Stone, Glass, Metals, and Pearls (23.3%), Chemicals, Plastics, Rubber and Leather products (23.0%), and Textiles, Footwear, and Headgear (14.9%).

| Imports from India by Sector | India Commodity Trade 2021 | US exports to India by Sector |
|------------------------------|---|-------------------------------|
| \$73,260,906,502 | Total Value All Commodities | \$40,130,084,419 |
| 8.0% | Agriculture (Chapters 01-24) | 3.9% |
| 4.4% | Oils, Minerals, Lime, Cement (Chapters 25-27) | 34.3% |
| 23.0% | Chemicals, Plastics, Rubber, Leather (Chapters 28-43) | 13.9% |
| 1.0% | Wood, Cork, Paper, Printed Books (Chapters 44-49) | 3.2% |
| 14.9% | Textiles, Footwear, Headgear (Chapters 50-67) | 1.0% |
| 23.3% | Stone, Glass, Metals, Pearls (Chapters 68-71) | 18.4% |
| 5.5% | Base Metals, Iron, Steel, Tools (Chapters 72-83) | 4.8% |
| 10.9% | Machinery & Mechanical Appliances (Chapters 84-85) | 9.5% |
| 3.8% | Transportation Equipment (Chapters 86-89) | 4.5% |
| 0.9% | Optical, Measuring, Medical, Other Instruments (Chapters 90-92) | 3.7% |
| 0.1% | Arms & Ammunition (Chapter 93) | 0.2% |
| 2.6% | Miscellaneous Manufactured Items (Chapters 94-96) | 0.2% |
| 0.1% | Art, Collectors' Pieces, Antiques (Chapter 97) | 0.1% |
| 1.6% | Special Items (Chapters 98) | 2.3% |

Source: U.S. Census Bureau USA Trade Portal February 15, 2022

The Share of U.S. – India Trade to the U.S. Global Trade

In 2021, 2.3% of the total *U.S. exports* were shipped to India while 2.6% of total *U.S. Imports* were delivered from India.

U.S. Trade with India in Oils, Minerals, Lime and Cement

In 2021, U.S. exports of Oils, Minerals, Lime, and Cement nearly doubled, increasing by 95.2% from \$7.0 billion in 2020 to \$13.8 billion in 2021. Likewise, imports of the same commodities from India increased by 73.4%, from \$1.8 billion in 2020 to \$3.2 billion in 2021. India was the destination of 5.5% of total U.S. exports of these commodities.

U.S Trade with India in Stone, Glass, Metals, and Pearls

In 2021, trade in Stone, Glass, Metals, and Pearls between the U.S. and India increased. Exports increased by 66.0% from \$4.4 billion in 2020 to \$7.4 billion in 2021, making India the destination of 7.8% of total U.S. exports of these commodities. Imports increased by 82.1% from \$9.4 billion to \$17.0 billion in 2021, representing 14.1% of total U.S. imports of these commodities.



U.S. Exports to India subject to U.S. Government Export Control

II. U.S. Exports to India subject to U.S. Government Export Control

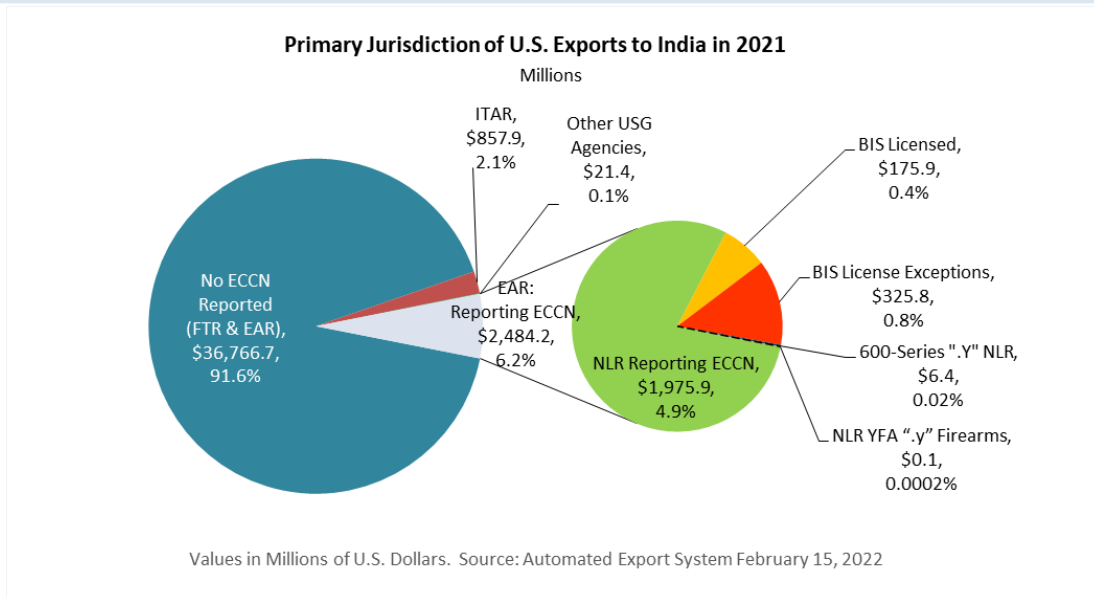
In 2021, of the \$40.1 billion in U.S. exports to India:

- 1.3% were subject to a BIS license requirement.
 - 0.4% were exported under a BIS license. Worldwide, 0.4% were exported under a BIS license.
 - 0.8% were exported under a BIS license exception. Worldwide, 0.8% were exported under a BIS license exception.
- 4.9% were exported under No License Required with an ECCN; Worldwide, 10.0% were exported under NLR with an ECCN reported.
 - 0.02% were exported under NLR for 600-series .y subparagraph items. Worldwide, 0.02% were exported under NLR 600-series .y subparagraph items.
 - 0.0002% were exported under NLR for 0A501 .y subparagraph Firearms items; Worldwide, 0.001% were exported under NLR for 0A501 .y subparagraph Firearms items.

| | | India | | |
|-------------------------------|------------------------------------|-------------------|-------------------|-------------------|
| | | 2019 | 2020 | 2021 |
| | Department of State | \$1,487.5 | \$675.8 | \$857.9 |
| | Other USG Agencies | \$66.6 | \$24.1 | \$21.4 |
| Department of Commerce | | \$32,667.3 | \$26,380.4 | \$39,250.8 |
| | BIS Licensed | \$229.8 | \$170.4 | \$175.9 |
| | BIS License Exceptions | \$413.4 | \$340.2 | \$325.8 |
| | NLR reporting an ECCN | \$2,554.8 | \$2,501.8 | \$1,975.9 |
| | NLR not reporting an ECCN | \$29,455.2 | \$23,358.0 | \$36,766.7 |
| | NLR 600-Series ".y" subparagraph | \$14.0 | \$10.1 | \$6.4 |
| | NLR YFA ".y" subparagraph Firearms | \$0.0 | \$0.0003 | \$0.07 |

Values in Millions of U.S. Dollars. Source: Automated Export System February 15, 2022

| Reasons for Control | Chemical and Biological Weapons | | | Nuclear Nonproliferation | | National Security | | Missile Tech | Regional Stability | | Firearms Convention | Crime Control | | | Anti-Terrorism | |
|---------------------|---------------------------------|------|------|--------------------------|------|-------------------|------|--------------|--------------------|------|---------------------|---------------|------|------|----------------|------|
| | CB:1 | CB:2 | CB:3 | NP:1 | NP:2 | NS:1 | NS:2 | MT:1 | RS:1 | RS:2 | FC:1 | CC:1 | CC:2 | CC:3 | AT:1 | AT:2 |
| India | X | | | X | | X | | X | X | | | | | | | |

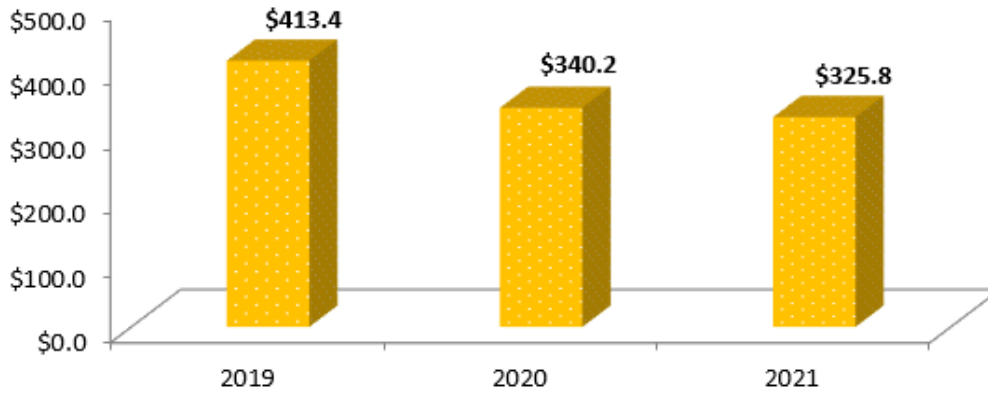




U.S. Exports to India subject to U.S. Government Export Control

In 2021, U.S. exports to India shipped under a BIS license exception totaled \$325.8 million, a 4.2% (\$14.4 million) decrease from 2020.

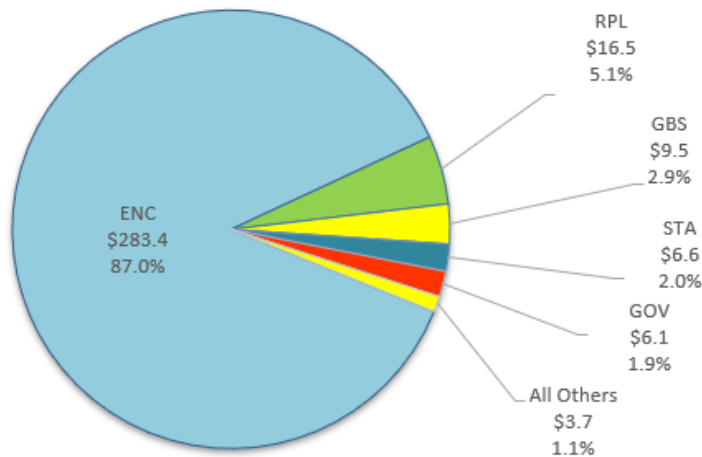
U.S. Exports under BIS License Exceptions to India (\$millions)



Source: Automated Export System, February 15, 2022

In 2021, the top license exception Encryption Commodities & Software (ENC) totaled \$283.4 million (87.0% of all license exceptions), followed by Servicing & Replacement of Parts & Equipment (RPL) at \$16.5 million (5.1%), and Country Group B Shipments (GBS) at \$9.5 million (2.9%)

2021 U.S. Exports to India by BIS License Exceptions \$million



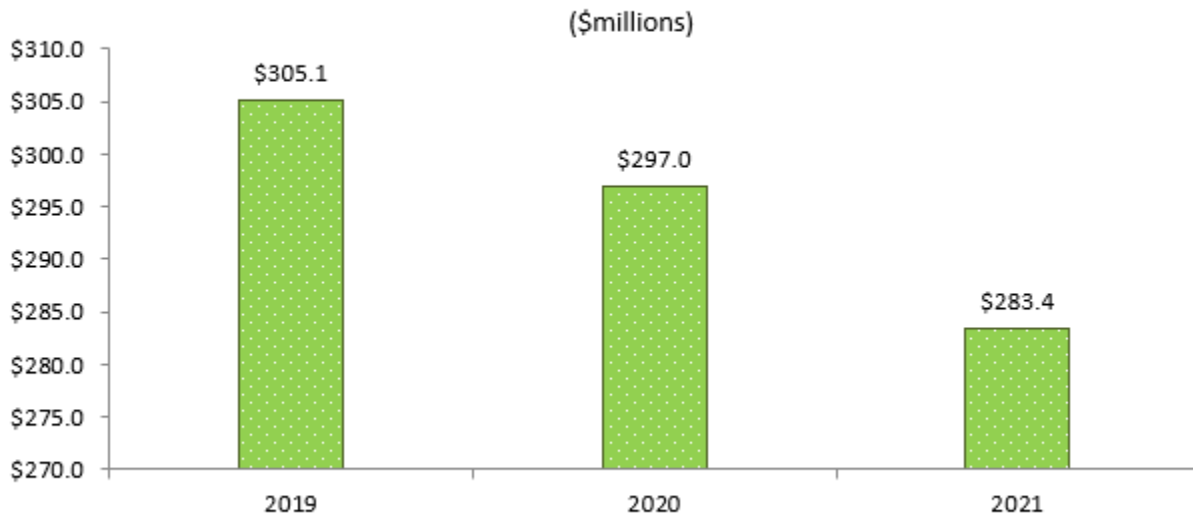
Source: Automated Export System, February 15, 2022



U.S. Exports to India subject to U.S. Government Export Control

In 2021, U.S. exports to India shipped under a BIS license exception: Encryption Commodities & Software totaled \$283.4 million, a 4.6% (\$13.6 million) decrease from 2020.

**U.S. Exports to India under BIS License Exception:
Encryption Commodities & Software**



Source: Automated Export System, February 15, 2022

U.S. Exports to India under BIS License Exceptions



The BIS License Exception for Encryption is excluded from this chart

Source: Automated Export System, February 15, 2022



U.S. Exports to India by Top Ten Export Control Classification Numbers (ECCN)

| Top Ten ECCNs by Value to India (\$millions) | | |
|--|-----|--|
| LICENSED | #1 | 9A610 Military Aircraft and Related Commodities, Other Than Those Enumerated |
| | #2 | 9A515 "Spacecraft" and related commodities, as follows (see List of Items Co |
| | #3 | 3A611 Military electronics, as follows (see List of Items Controlled). |
| | #4 | 6A003 Cameras, Systems or Equipment, and "Components" Therefor, as Follows (|
| | #5 | 3A001 Electronic items as follows (see List of Items Controlled). |
| | #6 | 9A619 Military gas turbine engines and related commodities (see List of Item |
| | #7 | 3A233 Mass spectrometers, capable of measuring ions of 230 atomic mass units |
| | #8 | 5A002 "Information security" systems, equipment and "components," as follows |
| | #9 | 2B201 Machine tools, and any combination thereof, other than those controlle |
| | #10 | 9B610 Test, inspection, and production "equipment" and related commodities " |

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

| Top Ten ECCNs by Value to India (\$millions) | | |
|--|-----|--|
| EXCEPTIONS | #1 | 5A002 "Information security" systems, equipment and "components," as follows |
| | #2 | 9A610 Military Aircraft and Related Commodities, Other Than Those Enumerated |
| | #3 | 3A001 Electronic items as follows (see List of Items Controlled). |
| | #4 | 5B002 "Information Security" test, inspection and "production" equipment, as |
| | #5 | 9A515 "Spacecraft" and related commodities, as follows (see List of Items Co |
| | #6 | EAR99 Items subject to the EAR that are not elsewhere specified in this CCL |
| | #7 | 6A003 Cameras, Systems or Equipment, and "Components" Therefor, as Follows (|
| | #8 | 9A991 "Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or |
| | #9 | 7A103 Instrumentation, navigation equipment and systems, other than those co |
| | #10 | 3A611 Military electronics, as follows (see List of Items Controlled). |

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

| Top Ten ECCNs by Value to India (\$millions) | | |
|--|-----|--|
| NLR with ECCN | #1 | 9A991 "Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or |
| | #2 | 5A992 Equipment not controlled by 5A002 (see List of Items Controlled). |
| | #3 | 5A991 Telecommunication equipment, not controlled by 5A001 (see List of Item |
| | #4 | 3A999 Specific Processing Equipment, n.e.s., as Follows (See List of Items C |
| | #5 | 2B999 Specific Processing Equipment, n.e.s., as Follows (See List of Items C |
| | #6 | 7A994 Other navigation direction finding equipment, airborne communication e |
| | #7 | 2B991 Numerical control units for machine tools and "numerically controlled" |
| | #8 | 3A992 General purpose electronic equipment not controlled by 3A002. |
| | #9 | 9A990 Diesel engines, n.e.s., and tractors and "specially designed" "parts" |
| | #10 | 5B991 Telecommunications test equipment, n.e.s. |

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description



U.S. Exports to India by Top Ten Export Control Classification Numbers (ECCN)

| Top Ten ECCNs to India by Shipment Count | | |
|--|-----|--|
| LICENSED | #1 | 9A610 Military Aircraft and Related Commodities, Other Than Those Enumerated |
| | #2 | 3A611 Military electronics, as follows (see List of Items Controlled). |
| | #3 | 9A515 "Spacecraft" and related commodities, as follows (see List of Items Co |
| | #4 | 3A001 Electronic items as follows (see List of Items Controlled). |
| | #5 | 2B230 All types of "pressure transducers" capable of measuring absolute pres |
| | #6 | 5A002 "Information security" systems, equipment and "components," as follows |
| | #7 | 9A619 Military gas turbine engines and related commodities (see List of Item |
| | #8 | 3A233 Mass spectrometers, capable of measuring ions of 230 atomic mass units |
| | #9 | 9B610 Test, inspection, and production "equipment" and related commodities " |
| | #10 | 6A003 Cameras, Systems or Equipment, and "Components" Therefor, as Follows (|

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

| Top Ten ECCNs to India by Shipment Count | | |
|--|-----|--|
| EXCEPTIONS | #1 | 5A002 "Information security" systems, equipment and "components," as follows |
| | #2 | 9A610 Military Aircraft and Related Commodities, Other Than Those Enumerated |
| | #3 | EAR99 Items subject to the EAR that are not elsewhere specified in this CCL |
| | #4 | 6A003 Cameras, Systems or Equipment, and "Components" Therefor, as Follows (|
| | #5 | 5B002 "Information Security" test, inspection and "production" equipment, as |
| | #6 | 7A103 Instrumentation, navigation equipment and systems, other than those co |
| | #7 | 5D002 "Software" as follows (see List of Items Controlled). |
| | #8 | 0A501 Firearms (except 0A502 shotguns) and related commodities as follows (s |
| | #9 | 3A611 Military electronics, as follows (see List of Items Controlled). |
| | #10 | 1C006 Fluids and lubricating materials, as follows (see List of Items Contro |

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

| Top Ten ECCNs to India by Shipment Count | | |
|--|-----|--|
| NLR with ECCN | #1 | 9A991 "Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or |
| | #2 | 5A991 Telecommunication equipment, not controlled by 5A001 (see List of Item |
| | #3 | 5A992 Equipment not controlled by 5A002 (see List of Items Controlled). |
| | #4 | 3A992 General purpose electronic equipment not controlled by 3A002. |
| | #5 | 4A994 Computers, "electronic assemblies" and related equipment not controle |
| | #6 | 3A999 Specific Processing Equipment, n.e.s., as Follows (See List of Items C |
| | #7 | 7A994 Other navigation direction finding equipment, airborne communication e |
| | #8 | 3A991 Electronic devices, and "components" not controlled by 3A001. |
| | #9 | 2B999 Specific Processing Equipment, n.e.s., as Follows (See List of Items C |
| | #10 | 2B991 Numerical control units for machine tools and "numerically controlled" |

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

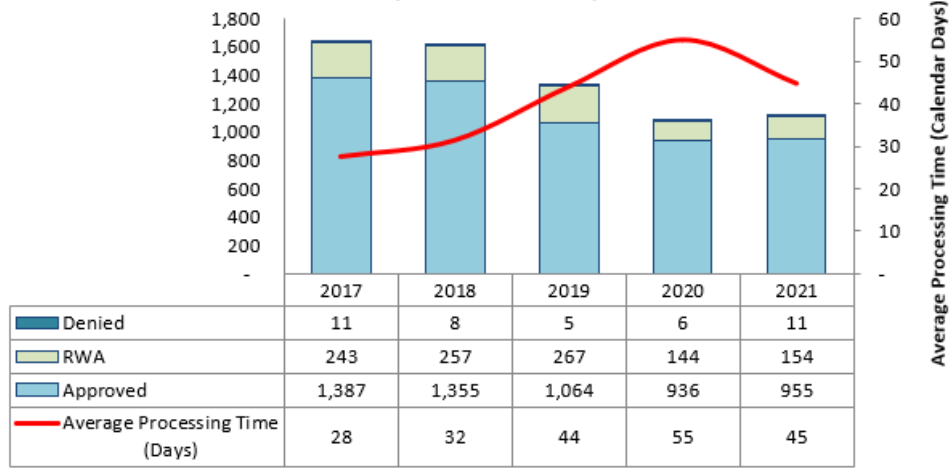


III. BIS Licensing to India

In 2021, BIS reviewed 1,120 export/re-export applications (not including deemed export applications) valued at \$3.2 billion for India, out of a total of 39,901 applications worldwide for tangible items, software and technology valued at \$1.4 trillion. License applications for India counted 2.8% of the World total by license count.

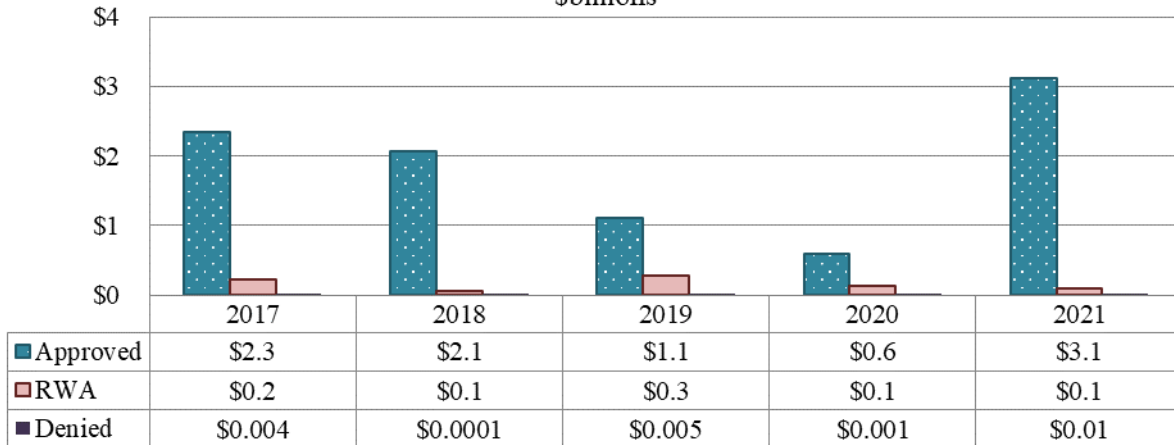
Approved applications for India totaled 955 (85.3% of the total applications) for \$3.1 billion, compared to 34,369 (86.1%) approved applications for all destinations valued at \$322.8 billion.

License Count for Tangible Items, Software, & Technology to India (Deemed Excluded)



Source: Commerce U.S. Exporter Support System, February 28, 2022

Licenses for Tangible Items, Software and Technology for India by Value 2017 - 2021
\$billions



Source: Commerce U.S. Exporter Support System, February 28, 2022



BIS License Determination Trends for India

In 2021, BIS reviewed 116 applications for Deemed Exports from Indian nationals, out of 942 applications worldwide. 99 applications were approved (85.3%) compared to the 821 (87.2%) approved applications for all destinations.

In the last five years, there were no denials for Deemed Export applications from Indian nationals.

| Deemed Export Licenses for Nationals of India | | | | | | |
|---|----------|-----|--------|-------------|-------------|--------------------------|
| 2017 - 2021 | | | | | | |
| Year | Approved | RWA | Denied | India Total | World Total | India Total/ World Total |
| 2017 | 79 | 7 | 0 | 86 | 1,510 | 5.7% |
| 2018 | 77 | 14 | 0 | 91 | 967 | 9.4% |
| 2019 | 67 | 20 | 0 | 87 | 1,302 | 6.7% |
| 2020 | 92 | 11 | 0 | 103 | 1,212 | 8.5% |
| 2021 | 99 | 17 | 0 | 116 | 942 | 12.3% |

Source: Commerce U.S. Exporter Support System, February 28, 2022

The top approved ECNNs (including deemed exports) to India by count include: 1C351 for Human and animal pathogens and “toxins” with 120 approvals; 9A610 for Military aircraft and related commodities with 106 approvals; and 5D002 “Software” as follows (see list of items controlled) with 83 approvals.

| Top Ten Approved (with deemed) ECCNs to India by Count | | 2017 | 2018 | 2019 | 2020 | 2021 | % of World Total 2021 |
|--|--|------|------|------|------|------|-----------------------|
| APPROVED | #1 1C351 Human and animal pathogens and “toxins,” as follows (see List of Items | 93 | 139 | 128 | 98 | 120 | 11.2% |
| | #2 9A610 Military Aircraft and Related Commodities, Other Than Those Enumerate | 140 | 132 | 145 | 133 | 106 | 2.0% |
| | #3 5D002 “Software” as follows (see List of Items Controlled). | 75 | 67 | 49 | 38 | 83 | 12.9% |
| | #4 3A001 Electronic items as follows (see List of Items Controlled). | 64 | 83 | 71 | 64 | 71 | 5.7% |
| | #5 3A611 Military electronics, as follows (see List of Items Controlled). | 130 | 119 | 73 | 79 | 70 | 3.3% |
| | #6 9E610 Technology “required” for the “development,” “production,” operation, | 77 | 70 | 67 | 82 | 65 | 5.0% |
| | #7 3A233 Mass spectrometers, capable of measuring ions of 230 atomic mass unit | 92 | 101 | 49 | 40 | 55 | 14.2% |
| | #8 9A515 “Spacecraft” and related commodities, as follows (see List of Items Co | 168 | 169 | 144 | 104 | 53 | 14.5% |
| | #9 9E515 “Technology” “required” for the “development,” “production,” operation | 69 | 64 | 58 | 33 | 42 | 7.9% |
| | #10 2B201 Machine tools, and any combination thereof, other than those controlle | 23 | 47 | 70 | 42 | 39 | 18.4% |

Source: Commerce U.S. Exporter Support System, February 28, 2022

Note: ECCN Descriptions have been truncated; please review Commerce Control List for Full Description

In 2021, there were 11 denied license applications for India.

In 2021, the average processing time for India was 45 calendar days.



Summary of U.S. Exports to India

| Summary of U.S. Exports to India Calendar Year 2021 | | | | |
|---|--|------------------|---------------------|---|
| | CY2021 | CY2020 | % of Total Exports | Percentage Change from previous year |
| Total Exports | \$40,130,084,419 | \$27,080,305,126 | | 48.2% |
| Total Subject to ITAR | \$857,877,191 | \$675,802,166 | 2.1% | 26.9% |
| Subject to Other Gov. Agencies | \$21,383,344 | \$24,067,192 | 0.1% | -11.2% |
| Detailed Summary of EAR-Controlled Exports | | | | |
| AES License Type | Description | Value | Percentage of Total | Percentage Description |
| C30 | Licenses | \$175,905,370 | 100.0% | |
| VDC | Voluntary Disclosure | \$0 | | |
| Total of Licensed | | \$175,905,370 | 0.4% | Total Licensed/Total Exports |
| C35 | LVS | \$52,243 | 0.02% | |
| C36 | GBS | \$9,539,466 | 2.9% | |
| C40 | TMP | \$1,771,504 | 0.5% | |
| C41 | RPL | \$16,467,856 | 5.1% | |
| C42 | GOV | \$6,147,787 | 1.9% | |
| C43 | GFT | \$1,127,618 | 0.3% | |
| C44 | TSU | \$357,679 | 0.1% | |
| C46 | AVS | \$366,034 | 0.1% | |
| C50 | ENC | \$283,364,168 | 87.0% | |
| C53 | APP | \$54,548 | 0.02% | |
| C59 | STA | \$6,557,685 | 2.0% | |
| Total of License Exceptions | | \$325,806,588 | 0.8% | Total License Exceptions/Total Exports |
| | | | 64.9% | Total License Exceptions/Total Subject to License Requirement |
| Total subject to license requirement (Licensed and License Exceptions) | | \$501,711,958 | 1.3% | Total Subject to License Requirement/Total Exports |
| C33 | NLR reporting an ECCN | \$1,975,893,447 | 4.9% | NLR reporting an ECCN/ Total Exports |
| C60 | NLR for 600-Series ".y" subparagraph | \$6,426,963 | 0.02% | NLR for 600-Series ".y" subparagraph/ Total Exports |
| C63 | NLR for 0A501 .y subparagraph Firearms | \$67,286 | 0.0002% | NLR for 0A501 .y subparagraph firearms/ Total Exports |
| Total of NLR | | \$1,982,387,696 | 4.9% | Total NLR with an ECCN/ Total Exports |
| Exports not reporting an ECCN | | \$36,766,724,230 | 91.6% | |

Source: U.S. Census Bureau, Foreign Trade Division and Automated Export System