CHEMICAL

Export advantage for India across recent FTAs

- India’s exports to the World is 28700.37 USDmn
- India ranks 13th in global Chemical exports with global share of 3.13%
- Other major global exporters include China, USA, Germany, Korea and Japan

Earlier FTAs

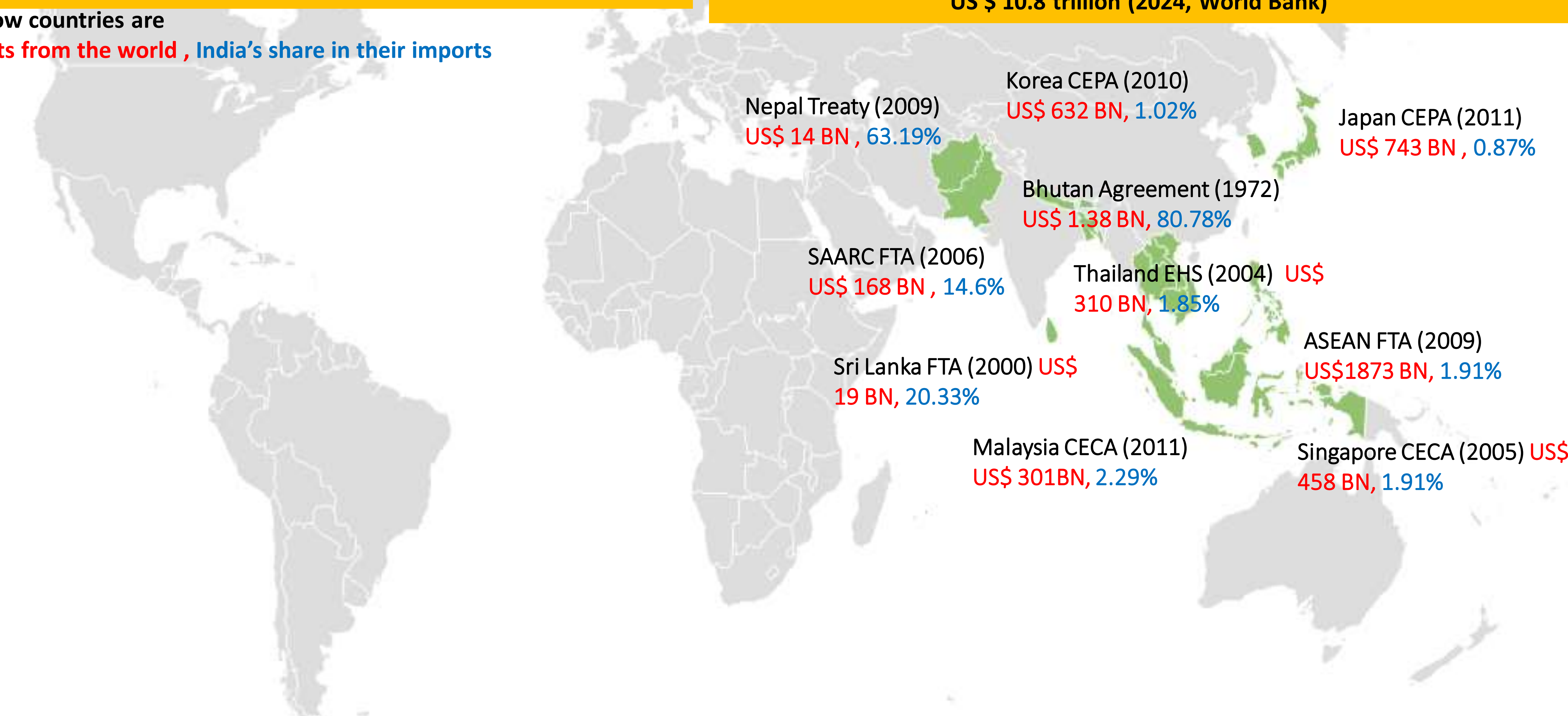
(signed prior to 2021)

Primary focus on Countries within Asian and South Asian region

Total import value of goods in past FTAs
US $ 5.2 trillion (2024, ITC Trade Map)

Total GDP value of past FTA countries
US $ 10.8 trillion (2024, World Bank)

Figures below countries are
their imports from the world , India's share in their imports



Nepal Treaty (2009)
US$ 14 BN , 63.19%

Korea CEPA (2010)
US$ 632 BN, 1.02%

Japan CEPA (2011)
US$ 743 BN , 0.87%

Bhutan Agreement (1972)
US$ 1.38 BN, 80.78%

SAARC FTA (2006)
US$ 168 BN , 14.6%

Thailand EHS (2004) US$
310 BN, 1.85%

ASEAN FTA (2009)
US$1873 BN, 1.91%

Sri Lanka FTA (2000) US$
19 BN, 20.33%

Malaysia CECA (2011)
US$ 301BN, 2.29%

Singapore CECA (2005) US$
458 BN, 1.91%

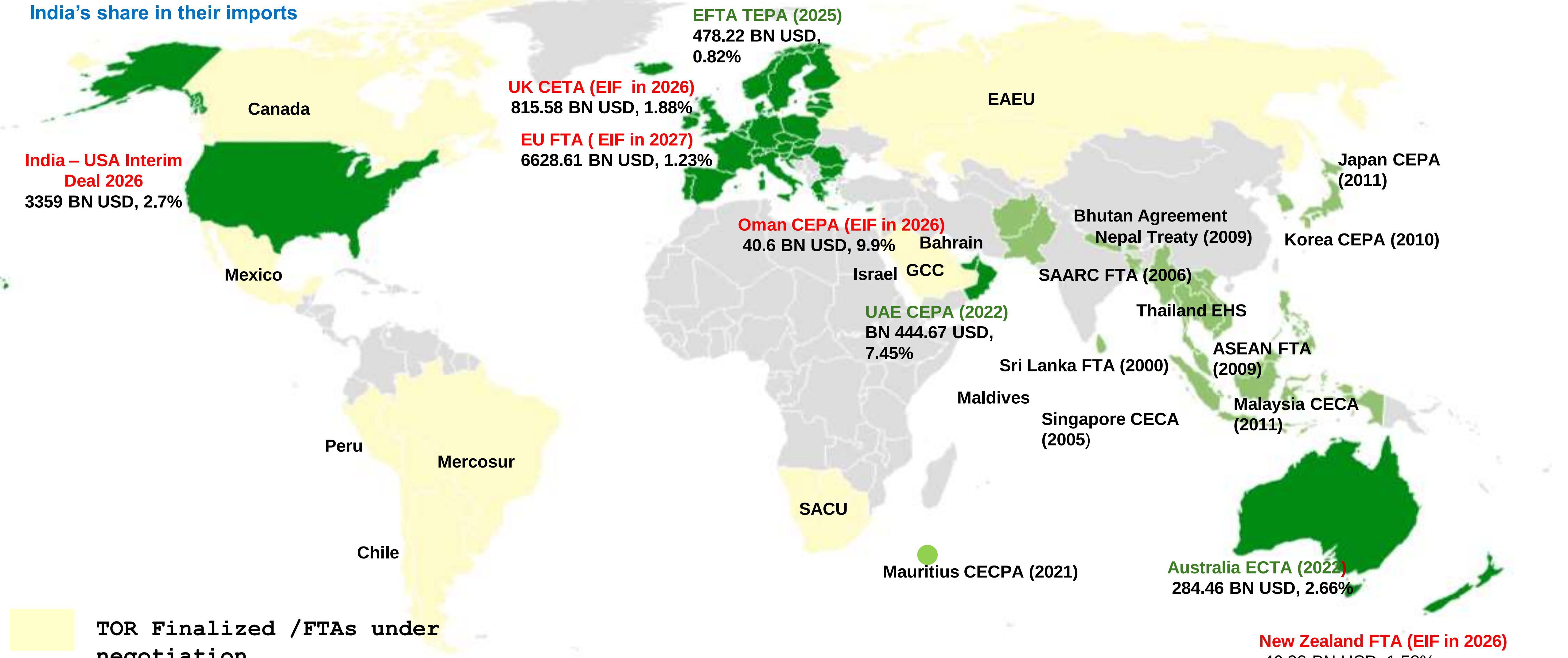
FTA: Free Trade Agreement **EHS: Early Harvest Scheme** **ECTA: Economic Cooperation and Trade Agreement** **CEPA: Comprehensive Economic Partnership Agreement**
CECA: Comprehensive Economic Cooperation Agreement **CECPA: Comprehensive Economic Cooperation and Partnership Agreement**

Recent FTAs gives market access to Developed markets of Oceania, UK & EU

Total import value of Goods in new FTAs is US $ 12 trillion (2024, ITC Trade Map)

Total GDP value of new FTAs is US $ 56 trillion (2024, World Bank)

Figures below countries are their imports from the world ,
India's share in their imports



🟨 TOR Finalized /FTAs under negotiation

🟩 New FTAs since 2022

🟩 Old FTAs before 2022

EIF: expected in Force

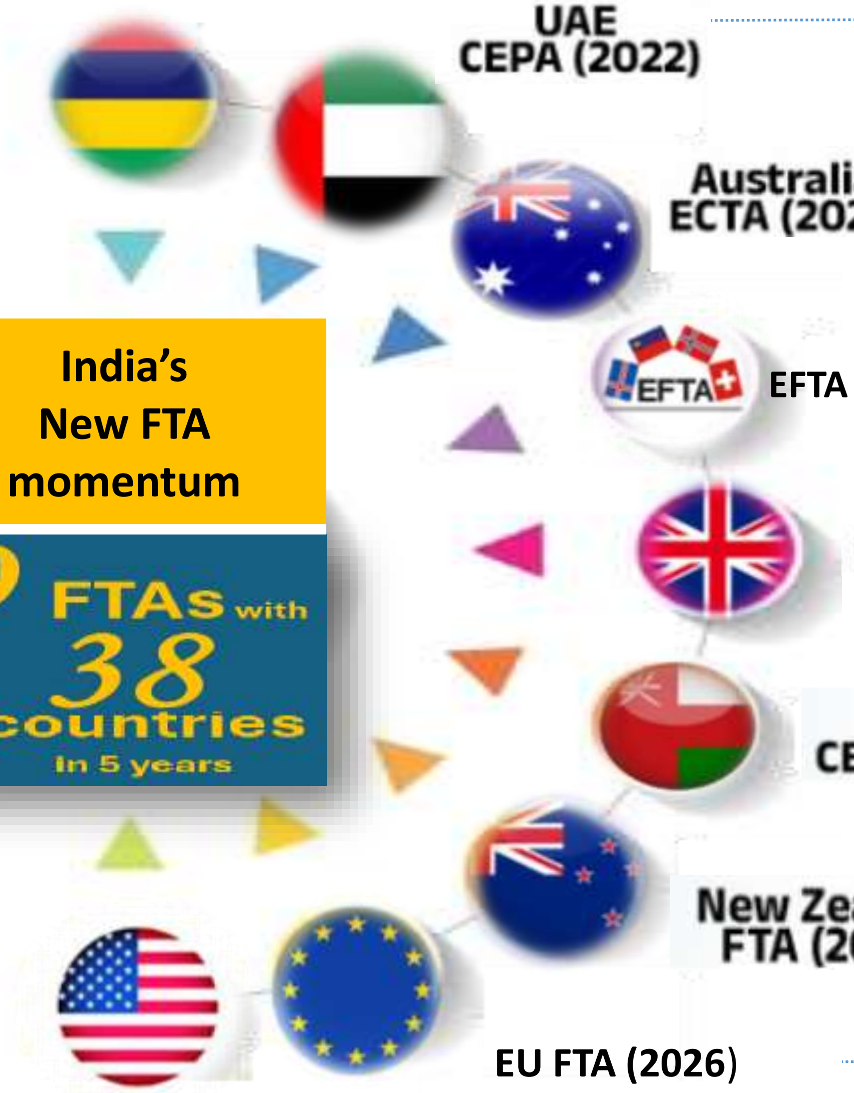
New Zealand FTA (EIF in 2026)
46.90 BN USD, 1.58%

Source: Imports data – CY 2024, ITC Trade Map ; GDP data – 2024, World Bank.

EFTA includes Switzerland, Norway, Iceland, Liechtenstein
TEPA: Trade and Economic Partnership Agreement
CETA: Comprehensive Economic and Trade Agreement
ECTA: Economic Cooperation and Trade Agreement

India's New FTA momentum

9 FTAs with 38 countries in 5 years



Mauritius CECPA (2021)	Strong Re-export and Investment linkages into East Africa
UAE CEPA (2022)	Gateway to Middle East with zero-duty access on 99% of India's exports, boosting bilateral trade beyond $80 billion
Australia ECTA (2022)	Duty-Free Access on 100% of Australian tariff lines, opening the door to the Indo-Pacific economy.
EFTA TEPA (2025)	Group of 4 countries with biggest FDI commitment of $100 bn
UK CETA (2025)	99% market access with a reciprocal Double Contributions Convention (DCC)
Oman CEPA (2025)	Duty-free access for around 98% of India's exports, expanding trade in textiles, engineering and agriculture
New Zealand FTA (2025)	100% duty-free from first day of entry into force, with US$20 billion investment, agriculture productivity partnership for apples, kiwifruit, and honey.
EU FTA (2026)	Access across 27 High-Income Economies.
USA Interim agreement (7th Feb 2026)	Strengthening trade with the USA

Efforts to promote exports in FTA countries

Role of D/O Commerce & it's stakeholders

DGFT along with GTPO/Industry Associations

- Spreading awareness on FTA benefits amongst Indian exporters
- Capacity building on FTA utilization by CII/FICCI/FIEO
- Providing exporters with practical assistance on leveraging FTA concessions, origin certification, and procedural clarity
- Brand promotion in FTA countries

Export Promotion Councils

- Ensuring Product-Market Fit while planning trade events in FTA countries
- Flag market access issues and resolve operational barriers to FTA utilization: Non-Tariff barriers (NTB), logistics, price, design etc. in consultation with their members
- Facilitating compliance with emerging global standards like sustainability, CBAM

Role of Indian Missions

- Ensuring FTA awareness in importing country and report adoption challenges if any
- **Identification of key buyers and importers and network** with relevant Brands and Retail stores in FTA countries prioritizing products with duty free access
- Ensuring relevant footfalls of buyers and importers in trade events organized by EPCs
- **G2G initiatives along with DoC and EPCs towards** expediting Non-Tariff Barrier (NTB) resolution in FTA
- Market Intelligence on **new opportunities, new products, technology, consumer preference etc.**

ROLE OF STATE GOVERNMENT ACROSS IDENTIFIED CATEGORIES

States as Enablers • Partners in Growth • Catalysts for Global Competitiveness

01

SCALE UP THE PRODUCTION

- State Government should focus on immediate expansion and scaling up of these products

02

MARKET DIVERSIFICATION TOWARDS FTA

- State Government should organise road shows, RBSMs etc and ensure rigorous Brand India presence in these markets and work closely with Indian Missions to establish market networks and encourage foreign brands to source from India

03

FOCUS SUPPLY SIDE CONSTRAINTS

- State Government to focus on issues other than tariff including non tariff barriers, quality upgradation, trade facilitation, port connectivity, price competitiveness etc before promoting products in FTA markets

04

DIVERSIFICATION TO NEW PRODUCTS

- State Government should have policy focus towards facilitating R&D, infrastructure, skill development, raw material availability etc.

STRONG STATE ACTION » COMPETITIVE INDUSTRY » GLOBAL IMPACT

Collaborative Governance • Targeted Interventions • Sustainable Export Growth

SUGGESTED ROLE OF LINE MINISTRIES

● *Production* ● *Quality* ● *Price Competitiveness* ● *Investment*

01 PRODUCTION

- Ensure sufficient production to take advantage of increased opportunities in FTA countries
- Export oriented production in terms of designs, varieties, technology etc.
- Focus on developing new products aligned with demands in FTA countries

02 QUALITY

- Alignment with global standards to enable GVC integration
- Promote adoption of international standards amongst MSMEs in domestic market
- Progressively upgrade domestic standards towards global benchmarks to enhance export competitiveness
- Ensure suitable infrastructure to monitor compliance

03 PRICE COMPETITIVENESS

- Focus on trade facilitation (logistics, port connectivity, common facilitation center etc.) at cluster level
- Align industrial policy with trade policy
  - → Revisit state level regulations with focus on export facilitation
  - → Focus on measures which integrate MSMEs in global value chain

04 INVESTMENT

- Promote investments for production in export potential areas

PRODUCTION » QUALITY » PRICE COMPETITIVENESS » INVESTMENT

Coordinated Ministry Action • Export Readiness • Global Competitiveness

CONCEPTUAL FRAMEWORK FOR FTA UTILISATION PLAN

A Strategic Framework to Maximise Export Opportunities

Different products require different FTA utilisation strategies based on market share, competitiveness and demand conditions.

	I SCALE UP	II DIVERSIFY INTO FTA MARKETS	III STRENGTHEN SUPPLY SIDE	IV DEVELOP NEW PRODUCTS
When?	India's share >15%	India's share <15%	Low share despite low tariffs	High import demand but India's exports remain low
Objective	Expand existing strengths	Capture untapped markets	Improve export competitiveness	Align exports with market demand
Key Actions	✓ MSME scaling ✓ Technology adoption ✓ Skill development ✓ Raw material access	✓ Buyer networking ✓ Trade fairs ✓ Market promotion	✓ Logistics improvement ✓ Port connectivity ✓ CFCs & Testing Labs	✓ R&D ✓ Innovation ✓ Product diversification
Lead Stakeholders	• State Governments • MSMEs • Industry Associations	• Indian Missions • Export Promotion Councils • Department of Commerce	• State Governments • Port Authorities • Infrastructure Agencies	• State Governments • R&D Institutions • Industry & Start-ups

EXPORT GROWTH

Sustainable • Competitive • Innovative

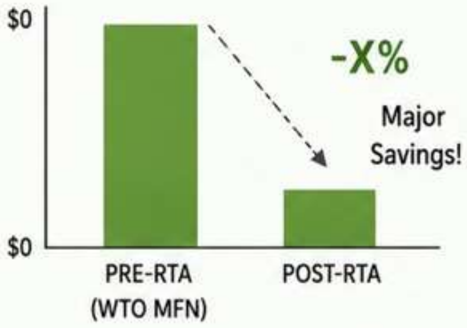
Market Expansion → Competitiveness Enhancement → Innovation & Value Addition

PARAMETER TO IDENTIFY EXTENT OF BENEFIT UNDER FTA

(Free Trade Agreement)

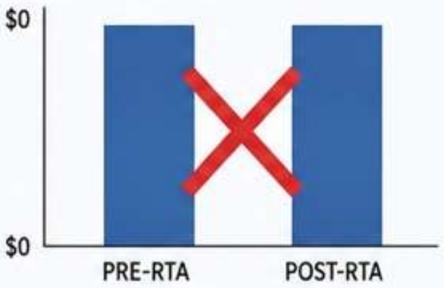
OPEN / DUTY FREE

You pay WTO MFN duty before RTA but pay **Lesser duty** after RTA.



EXCLUDED

RTA duty relaxation does not apply here. You pay **WTO MFN** duty before as well as after RTA.

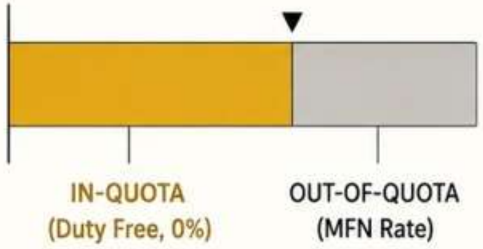


NO CHANGE

TARIFF RATE QUOTA (TRQ)

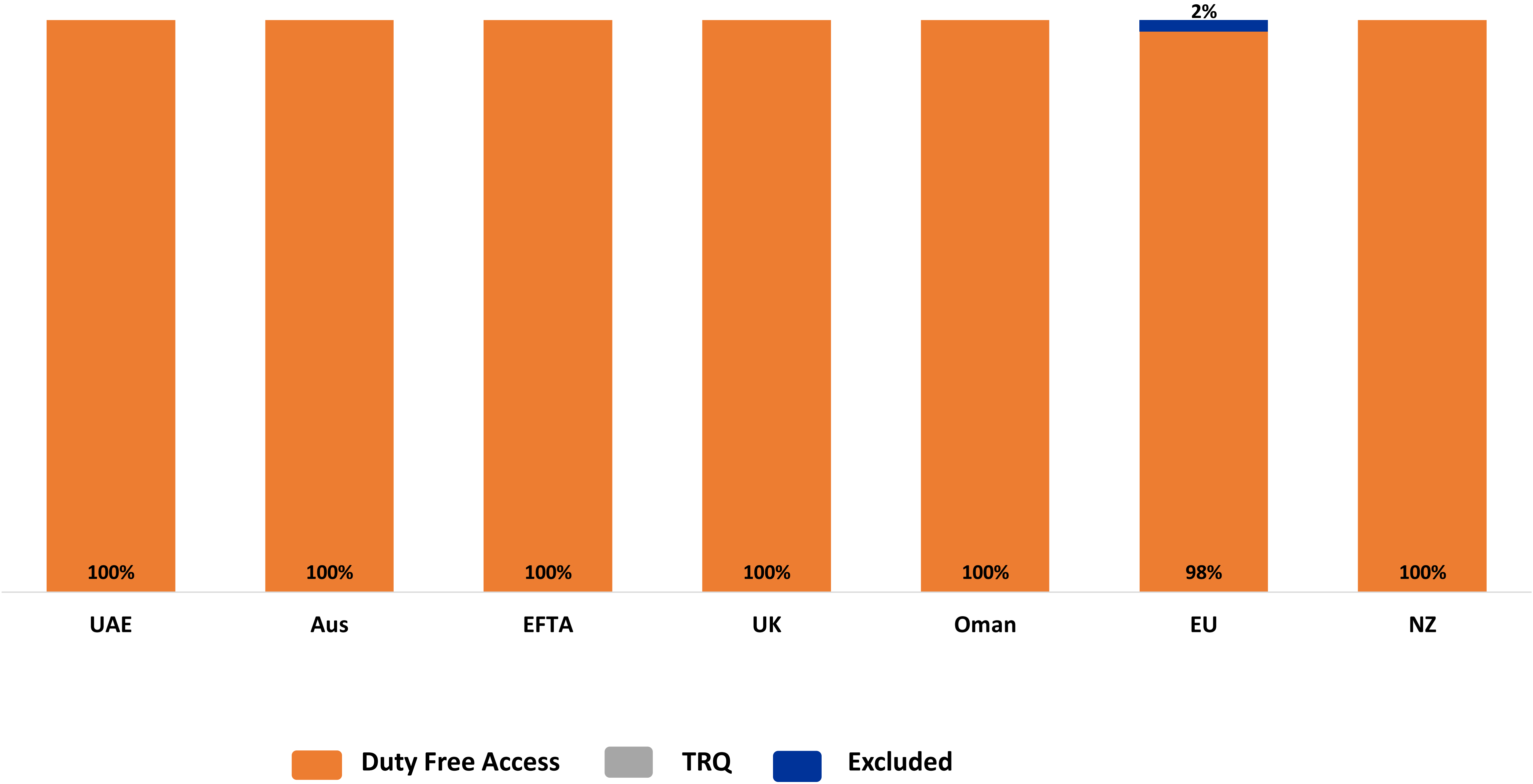
QUOTA

Products duty free access for certain quota amount.



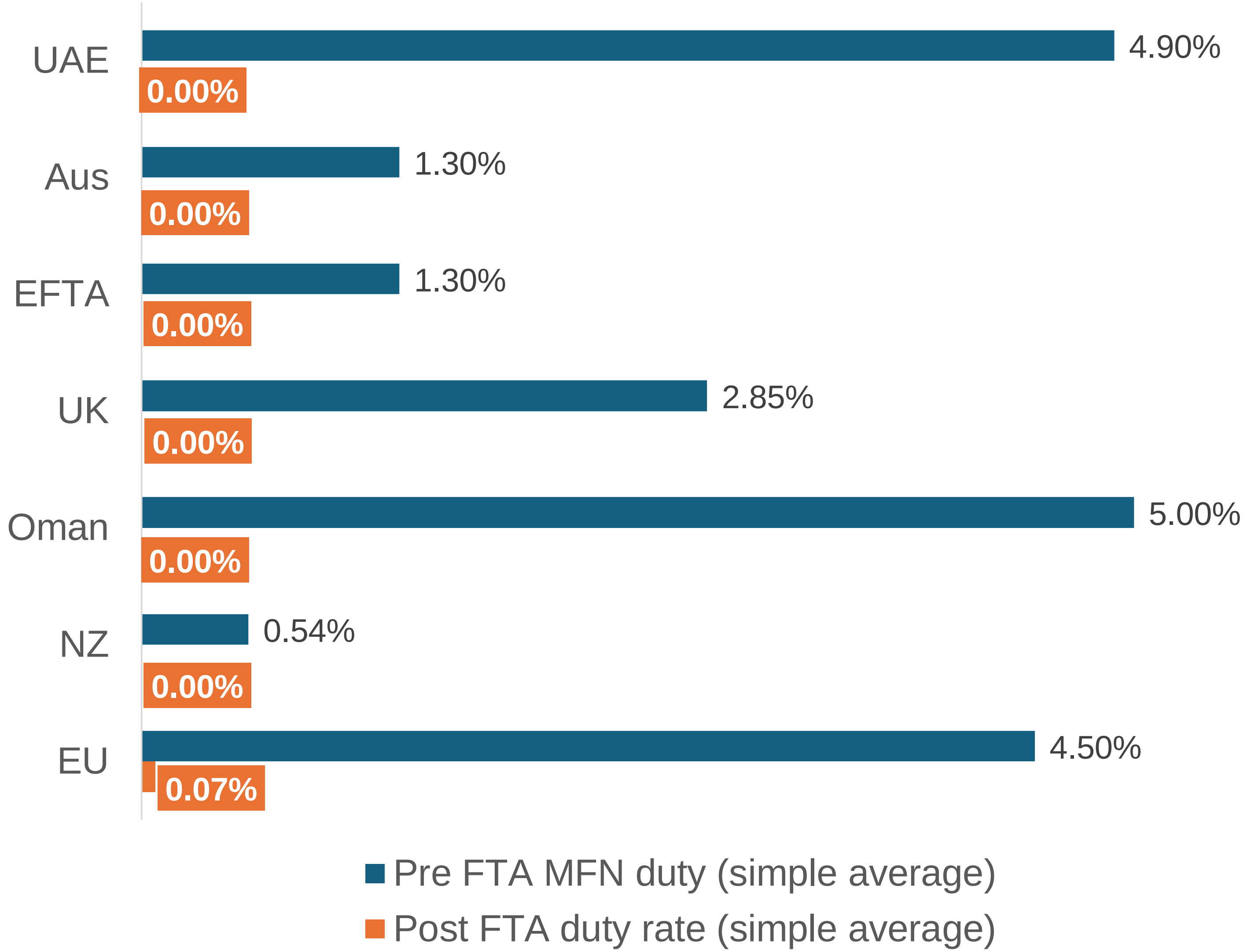
These parameters help determhemine the applicable benefit and correct duty treatment under FTA.

Market Access landscape across FTAs: Chemicals



Existing status of Indian Chemical exports across FTAs

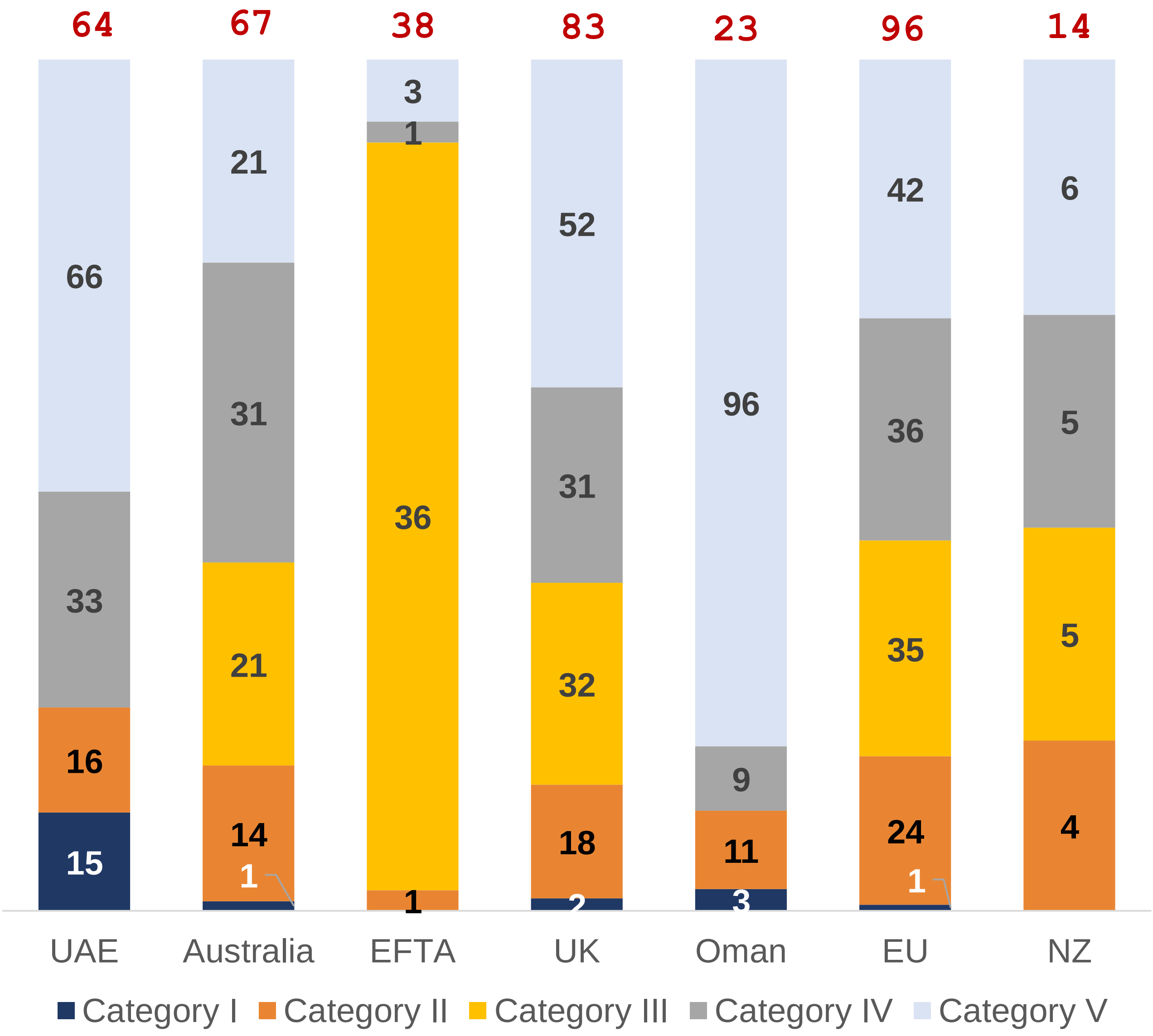
Newly signed FTAs give export opportunities to Indian chemical industry to the tune of US$462 billion



All values in USD mn for Jan-Dec 2024

FTA	**Total imports from World**	**Share of India in Imports (%)**
UAE	12,795	8.96%
Australia	10,272	2.09%
EFTA	17,579	5.49%
UK	29,033	2.34%
Oman	2,711	4.12%
NZ	2,059	2.12%
EU	3,87,540	3.29%

Category-wise distribution of tariff lines of Chemicals across FTAs

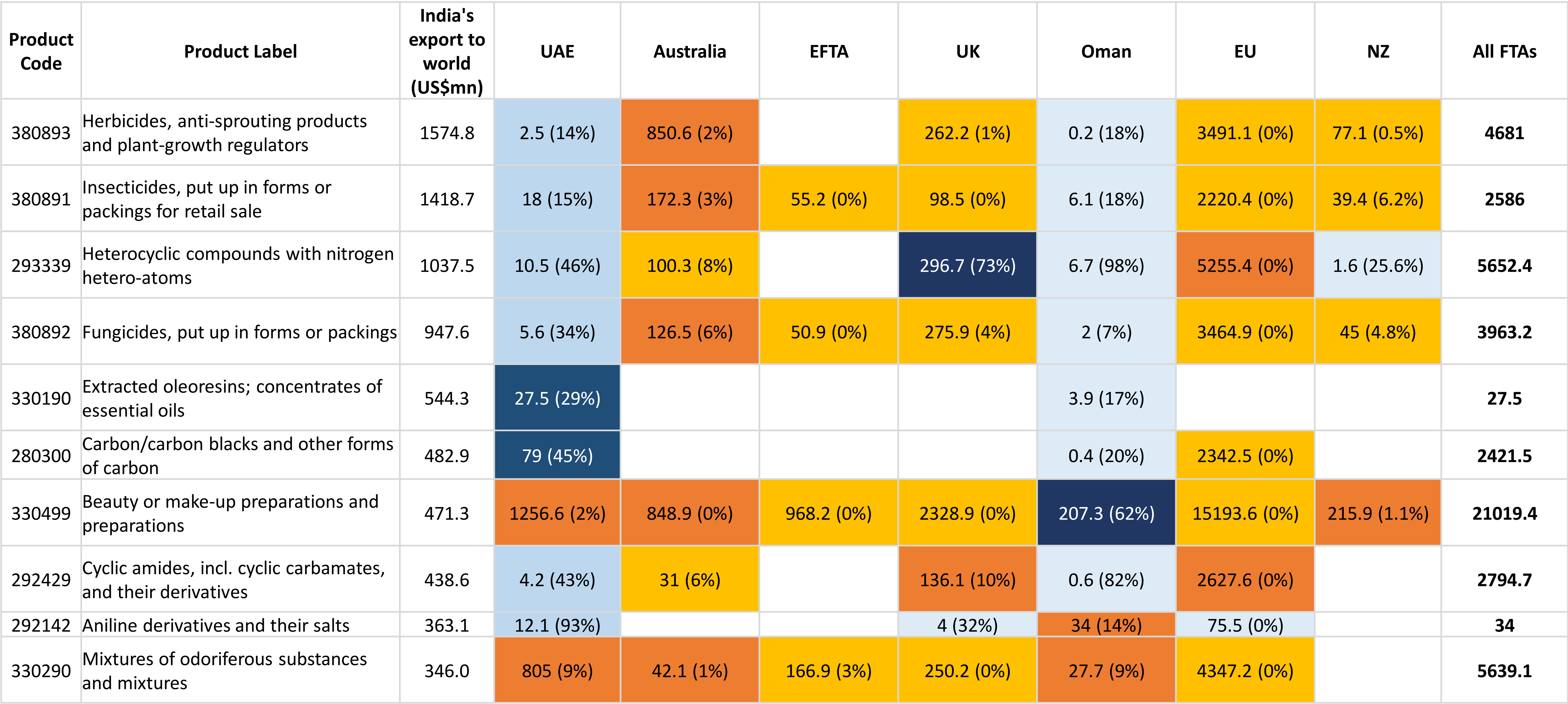


Stack bar indicates number of tariff lines to be focused against each category across FTAs. Value in red above each stack bar is the total number of tariff lines across

Category-wise Import value of Identified focus tariff lines in US$ MN and their % contribution

FTA	Category I	Category II	Category III	Category IV	Total
UAE	1233.3 (10%)	5534.8 (43%)		2080.9 (16%)	8849 (69%)
Australia	29.80 (0.3%)	3568 (35%)	1937.7 (19.7%)	1702.7 (17.3%)	7807.1 (79.5%)
EFTA	-	-	6147.5 (35.9%)	74.8 (0.4%)	6222.4 (36.3%)
UK	344.2 (1%)	3460.2 (12%)	12222.5 (42.8%)	2499.9 (8.8%)	19283.4 (67.5%)
Oman	271.14 (10%)	606.6 (22%)	-	637.9 (30.4%)	1515.6 (76.3%)
EU	20622.5 (5.6%)	60849.4 (16%)	108465.8 (29.2%)	41292 (11.1%)	247614.4 (66.7%)
NZ	-	402.6 (19.6%)	342.7 (16.6%)	164.7 (44.2%)	910.1 (8[illegible]

Product-wise categorisation across FTAs for CHEMEXCIL



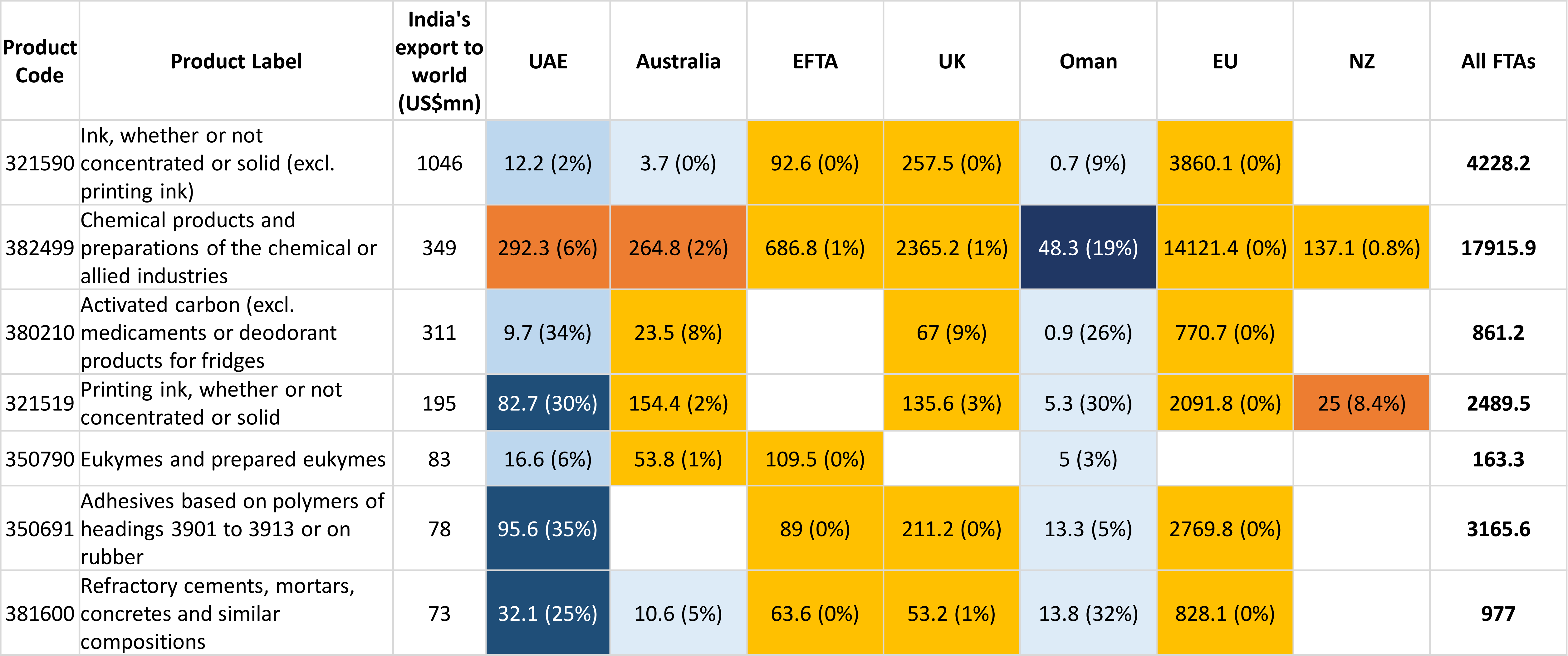
Product Code	Product Label	India's export to world (US$mn)	UAE	Australia	EFTA	UK	Oman	EU	NZ	All FTAs
380893	Herbicides, anti-sprouting products and plant-growth regulators	1574.8	2.5 (14%)	850.6 (2%)		262.2 (1%)	0.2 (18%)	3491.1 (0%)	77.1 (0.5%)	**4681**
380891	Insecticides, put up in forms or packings for retail sale	1418.7	18 (15%)	172.3 (3%)	55.2 (0%)	98.5 (0%)	6.1 (18%)	2220.4 (0%)	39.4 (6.2%)	**2586**
293339	Heterocyclic compounds with nitrogen hetero-atoms	1037.5	10.5 (46%)	100.3 (8%)		296.7 (73%)	6.7 (98%)	5255.4 (0%)	1.6 (25.6%)	**5652.4**
380892	Fungicides, put up in forms or packings	947.6	5.6 (34%)	126.5 (6%)	50.9 (0%)	275.9 (4%)	2 (7%)	3464.9 (0%)	45 (4.8%)	**3963.2**
330190	Extracted oleoresins; concentrates of essential oils	544.3	27.5 (29%)				3.9 (17%)			**27.5**
280300	Carbon/carbon blacks and other forms of carbon	482.9	79 (45%)				0.4 (20%)	2342.5 (0%)		**2421.5**
330499	Beauty or make-up preparations and preparations	471.3	1256.6 (2%)	848.9 (0%)	968.2 (0%)	2328.9 (0%)	207.3 (62%)	15193.6 (0%)	215.9 (1.1%)	**21019.4**
292429	Cyclic amides, incl. cyclic carbamates, and their derivatives	438.6	4.2 (43%)	31 (6%)		136.1 (10%)	0.6 (82%)	2627.6 (0%)		**2794.7**
292142	Aniline derivatives and their salts	363.1	12.1 (93%)			4 (32%)	34 (14%)	75.5 (0%)		**34**
330290	Mixtures of odoriferous substances and mixtures	346.0	805 (9%)	42.1 (1%)	166.9 (3%)	250.2 (0%)	27.7 (9%)	4347.2 (0%)		**5639.1**

 # Total import demand in those FTAs where the product fall under Categories I- III is taken as export opportunity for India, if the suggested action as per categories mentioned is taken

Row values indicate the nation's total imports from the world; bracketed figures show India's share of those imports. Values reported

Category I : Scale	Category II: Diversify into FTA market	Category III: Focus on supply side issues	Category IV: Opportunities for New Products	Category V: Consider realigning in long run

Product-wise categorisation across FTAs for CAPEXCIL



Product Code	Product Label	India's export to world (US$mn)	UAE	Australia	EFTA	UK	Oman	EU	NZ	All FTAs
321590	Ink, whether or not concentrated or solid (excl. printing ink)	1046	12.2 (2%)	3.7 (0%)	92.6 (0%)	257.5 (0%)	0.7 (9%)	3860.1 (0%)		**4228.2**
382499	Chemical products and preparations of the chemical or allied industries	349	292.3 (6%)	264.8 (2%)	686.8 (1%)	2365.2 (1%)	48.3 (19%)	14121.4 (0%)	137.1 (0.8%)	**17915.9**
380210	Activated carbon (excl. medicaments or deodorant products for fridges	311	9.7 (34%)	23.5 (8%)		67 (9%)	0.9 (26%)	770.7 (0%)		**861.2**
321519	Printing ink, whether or not concentrated or solid	195	82.7 (30%)	154.4 (2%)		135.6 (3%)	5.3 (30%)	2091.8 (0%)	25 (8.4%)	**2489.5**
350790	Eukymes and prepared eukymes	83	16.6 (6%)	53.8 (1%)	109.5 (0%)		5 (3%)			**163.3**
350691	Adhesives based on polymers of headings 3901 to 3913 or on rubber	78	95.6 (35%)		89 (0%)	211.2 (0%)	13.3 (5%)	2769.8 (0%)		**3165.6**
381600	Refractory cements, mortars, concretes and similar compositions	73	32.1 (25%)	10.6 (5%)	63.6 (0%)	53.2 (1%)	13.8 (32%)	828.1 (0%)		**977**

 # Total import demand in those FTAs where the product fall under Categories I- III is taken as export opportunity for India, if the suggested action as per categories mentioned is taken

Row values indicate the nation's total imports from the world; bracketed figures show India's share of those imports. Values

Category I : Scale	Category II: Diversify into FTA market	Category III: Focus on supply side issues	Category IV: Opportunities for New Products	Category V: Consider realigning in long run

Product-wise categorisation across FTAs for SHEFEXCIL

Product Code	Product Label	India's export to world (US$mn)	UAE	Australia	EFTA	UK	Oman	EU	NZ	All FTAs
210690	Food preparations	789	947.4 (65%)	1641.3 (2%)	1022.4 (0%)	3140.2 (1%)	108.7 (3%)	17378.6 (0%)	462.7 (2%)	**24701.3**
130219	Vegetable saps and extracts	549		97.8 (21%)	50.4 (3%)	71.5 (15%)		1203.6 (8%)	25.2 (16.8%)	**1448.5**
121190	Plants, parts of plants, incl. seeds and fruits	544		181.9 (6%)	74.7 (4%)	123.2 (16%)	2.5 (9%)	1429.5 (14%)	14.6 (5.5%)	**1809.3**
210111	Extracts, essences and concentrates, of coffee	525	139.2 (7%)	181.6 (4%)		469 (4%)	7.2 (6%)	2394.3 (4%)	42.7 (1%)	**3234**
330290	Mixtures of odoriferous substances and mixtures	346	805 (9%)	42.1 (1%)	166.9 (3%)	250.2 (0%)	27.7 (9%)	4347.2 (0%)		**1014**
292320	Lecithins and other phosphoaminolipids	116	2.7 (61%)			51.9 (8%)	0.9 (86%)	529.9 (0%)		**529.9**
151590	Fixed vegetable fats and oils and their fractions	112	10.9 (1%)	50.6 (4%)	125.9 (0%)				19.3 (3%)	**176.5**

 # Total import demand in those FTAs where the product fall under Categories I- III is taken as export opportunity for India, if the suggested action as per categories mentioned is taken

Category I : Scale	Category II: Diversify into FTA market	Category III: Focus on supply side issues	Category IV: Opportunities for New Products	Category V: Consider realigning in long run

Chemicals: Category-wise Common Products for Exports Across FTAs

Category I Scale-up production	**Category II Market Diversification**	**Category III Focus supply side constraints**	**Category IV Diversification**	**Category V (Realign focus)**
• Pyridine and its Derivatives • Hydrogen Peroxide • Skin Care Preparations • Fragrance Mixtures • Amines	• Chemical Preparations • Nitrogen Heterocyclic Compounds • Acyclic Alcohols • Fuel Additives • Acyclic Alcohols	• Simple Amino-alcohols • Specialty Lactams, • Food Fragrance Mixes, • Retail Insecticides, • Miscellaneous Chemicals	• Putty & Sealants • Organic Surfactants & Cleaners • Shampoos & Hair Preparations • Ethylene Glycol (Industrial Grade)	• Mixed-Halogen Chain Chemicals • Chlorinated Benzenes • Unsaturated Fatty-like Acids and Derivatives • Simple Methyl Amines • Lye or Caustic Soda Flakes • Titanium Dioxide • Aluminium Chloride

Opportunity assessment for India against Competing Suppliers for Category I & II products

UAE

Lubricant Additives	$510 MN	5%	10.4%	75.2%	14.2%
Chemical Preparations	$292 MN	5%	6%	83%	10.5%
Fragrance Mixtures	$805 MN	5%	8.8%	77%	13.9%
Printing Ink	$83 MN	5%	30.3%	60.4%	9.3%
Fuel Additives	$445 MN	5%	52.5%	46.6%	1.2%
Hair Care Products	$244 MN	5%	9.5%	7.6%	82.9%

Australia (average

Fungicides	$127 MN	5%	6.2%	31.6%	62.2%
Carboxylic Acids	$30 MN	5%	22.0%	16.6%	61.2%
Candles	$80 MN	5%	9.2%	9%	81.6%
Titanium Pigments	$15 MN	5%	22%	13.7%	63.9%
Plant Protection Chemicals	$52 MN	5%	8.1%	44.1%	47.7%

UK

Acyclic Amides	$71 MN	7%	7.7%	38.9%	52.3%
Oxygen Heterocycles	$71 MN	7%	7.8%	32.5%	59.6%
Amino Phenols	$62 MN	7%	5.7%	72.7%	21.4%
Nitrogen Heterocycles	$297 MN	6%	72.8%	19.8%	7.4%
Cyclic Amides	$136 MN	6%	10.4%	77%	12.3%
Organ sulphur Compounds	$82 MN	6%	6.5%	45.9%	47.4%

🟥	**Pre-FTA Duty**
⬛	**India's current share in the country's imports from the world**
🟩	**Total share of major competing countries against which India will have a tariff advantage post FTA**
🟨	**Total share of major competing countries already having duty-free access, where India will also be at par post FTA**

Opportunity assessment for India against Competing Suppliers for Category I & II products

Oman (average pre-

Skin Care Products	$207 MN	5%	61.9%	11%	26.9%
Chemical Preparations	$48 MN	5%	19.4%	30.7%	49.5%
Fragrance Mixtures	$28 MN	5%	9.3%	35%	55.4%
Nitrogen Heterocycles	$5 MN	5%	15.9%	82.8%	1.2%
Fuel Additives	$16 MN	5%	25.3%	4.2%	70.6%
Cleaning Preparations	$18 MN	5%	10.8%	27.6%	61.6%

European Union

Pyridine N-Heterocycles	$5.3k MN	6%	0%	17.4%	76.9%
Pyrimidine Derivatives	$14.8k MN	6%	0%	15.5%	83.5%
Complex Lactams	$10.6k MN	7%	0%	19.8%	79%
Nitrogen Heterocycles	$20623 MN	6%	34.5%	30%	59.3%
Sulphonamides	$5k MN	6%	0%	11%	79%
Pyrimidine Ring Cpds	$4.4k MN	6%	0%	60%	5.8%

New Zealand

Beauty & Skincare Products	$215 MN	5%	1.1%	47.3%	44%
Perfumes & Fragrances	$100 MN	5%	0.2%	85.5%	10.5%
Printing Ink	$25 MN	5%	8.4%	53.1%	14.9%
Hair Care Products	$61 MN	5%	1.9%	40.2%	40.7%

🟥 Pre-FTA Duty

⬛ India's current share in the country's imports from the world

🟩 Total share of major competing countries against which India will have a tariff advantage post FTA

🟨 Total share of major competing countries already having duty-free access, where India will also be at par post FTA

*Competitors' analysis in case of EU is based on Germany

New product (Category IV) opportunity across FTAs for Chemicals (All FTAs)

Values reported in USD MN

Product Label	EPC	India's export to world	UAE	Australia	EFTA	UK	Oman	EU	NZ	All FTAs
Paints and varnishes	CAPEXIL	49.12		83.4 (4%)			24.9 (2%)			83.4 (6%)
Shampoos	CHEMEXCIL	47.18	140.6 (9%)	121.3 (2%)			25 (2%)		35.8 (2.0%)	322.7 (15%)
Disinfectants	CHEMEXCIL	47.01		81.7 (1%)						105.3 (4%)
Zinc oxide; zinc peroxide	CAPEXIL	44.40						519 (0%)		519 (0%)
Animal or vegetable fats	CAPEXIL	41.94			74.8 (0%)	296.6 (0%)		5603.8 (0%)		6050 (0%)
Organic surface-active products-skin wash	CHEMEXCIL	39.30	168.7 (2%)	151.4 (1%)					31.6 (0.5%)	369.3 (3.5%)
Ethylene glycol "ethanediol"	CHEMEXCIL	38.79		18 (2%)		59.4 (0%)	89.6 (0%)	1045.1 (0%)		1212.1 (2%)
Heterocyclic compounds with oxygen	CHEMEXCIL	34.69						1766.2 (0%)		1766.2 (0%)

Total import demand in those FTAs where the product fall under Category IV is taken as export opportunity for India. Row values indicate the nation's total imports from the world; bracketed figures show India's share of those imports. Values reported in USD MN

New Emerging opportunities across FTAs: Long Run focus products

UAE

- Glaziers Putty & Sealants
- Titanium Dioxide Pigments (TiO_2)
- Isocyanates (MDI/TDI)
- Organic Surfactants & Cleaners
- Skin & Hair Care Formulations

Australia

- Glaziers Putty
- & Sealants
- Titanium Dioxide
- Pigments (TiO_2)
- Organic Surfactants
- & Cleaners
- Skin & Hair Care
- Formulations

EFTA

- Skin & Hair Care
- Formulations
- Ethylene & Propylene
- Glycols

UK

- Modified Starches & Dextrins
- Complex Lactams & N-Heterocycles
- Glaziers Putty & Sealants
- Titanium Dioxide Pigments (TiO_2)
- Isocyanates (MDI/TDI)
- Organic Surfactants & Cleaners
- Skin & Hair Care

OMAN

- Titanium Dioxide
- Pigments (TiO_2)
- Ethylene & Propylene
- Glycols

EU

- Ethylene & Propylene Glycols
- Organic Surfactants & Cleaners
- Isocyanates (MDI/TDI)
- Titanium Dioxide Pigments (TiO_2)
- Glaziers Putty & Sealants
- Complex Lactams & N-Heterocycles
- Modified Starches & Dextrin's

NZ

- Shampoos
- Organic skin products

States with Production Potential

Modified Starches & Dextrins	Complex Lactams & N-Heterocycles	Glaziers Putty & Sealants	Titanium Dioxide Pigments (TiO_2)	Isocyanates (MDI/TDI)	Organic Surfactants & Cleaners	Skin & Hair Care Formulations	Ethylene & Propylene Glycols
Ahmedabad (GJ),	Hyderabad (TS), Pune	Valsad-Vapi (GJ), Thane	Thoothukudi (TN), Vizag	Bharuch (GJ), Raigad (MH)	Thane (MH), Bharuch (GJ)	Haridwar (UK), Baddi (HP)	Bharuch (GJ), Panipat (HR)

IDENTIFIED PRODUCTION CLUSTERS/STATES FOR FOCUS TARIFF LINES
Line ministry: Department of Chemicals & Petro Chemicals
EPC: CHEMEXCIL

Product	Major Production Clusters	Leading States
Insecticides / Fungicides	Ankleshwar-Vapi belt, Hyderabad pharma-chem cluster	Gujarat, Telangana, Maharashtra
Extracted oleoresins	Spice extraction clusters (Kochi, Erode, Guntur)	Kerala, Tamil Nadu, Andhra Pradesh
Beauty / make-up preparations	Mumbai cosmetic cluster, Baddi industrial area	Maharashtra, Himachal Pradesh, Uttarakhand
Mixtures of odoriferous substances	Kannauj perfume cluster, Mumbai aroma chemicals	Uttar Pradesh, Maharashtra, Gujarat
Fatty acids (oleochemicals)	Mumbai-Raigad, Kandla, Chennai	Maharashtra, Gujarat, Tamil Nadu
Carbon blacks & forms of carbon	Haldia petrochemical belt, Mundra	West Bengal, Gujarat, Maharashtra
Acyclic ethers & derivatives	Ankleshwar, Dahej chemical hubs	Gujarat, Maharashtra
Nitrogen heterocyclic compounds	Hyderabad bulk drug cluster, Vizag pharma zone	Telangana, Andhra Pradesh, Maharashtra
Ink (printing inks)	Ahmedabad, Mumbai printing chemical clusters	Gujarat, Maharashtra
Sulphonamides	Hyderabad pharma cluster, Ankleshwar	Telangana, Gujarat

CHEMICAL CLUSTERS IN INDIA