



Action Plan for reduction of imports

&

Project Profile

On

“Hinges, Hasps and Staples”



PREPARED BY

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Hinges, Hasps and Staples

(A) Commercial Details:-

| | <u>NIC Code</u> | <u>HSN Code</u> |
|---|-----------------|-----------------|
| 1. Hinges (Iron/Steel) | 25934 | 83021010 |
| 2. Hinges (Brass) | 25934 | 83021020 |
| 3. Hinges (Al and other base metal) | 25934 | 83021090 |
| 4. Hasps & Staples | 25934 & 25991 | 83052000 |
| 5. Straps (SS) | 25991 | 73170091 |
| 6. Hinges (Fitting for doors & windows) | 25934 | 83024110 |

State wise total number of applications with 5 digits NIC code (25934-Manufacture of padlocks, locks, keys, hinges and the like, hardware for buildings, furniture, vehicles etc.) Under UAM Till 30/06/2020

| S.No | State Name | Micro | Small | Medium | Total |
|------|-------------------|-------|-------|--------|-------|
| 1 | ANDHRA PRADESH | 41 | 11 | 0 | 52 |
| 2 | ARUNACHAL PRADESH | 2 | 3 | 1 | 6 |
| 3 | ASSAM | 17 | 16 | 1 | 34 |
| 4 | BIHAR | 382 | 36 | 0 | 418 |
| 5 | CHHATTISGARH | 22 | 5 | 0 | 27 |
| 6 | GOA | 9 | 3 | 0 | 12 |
| 7 | GUJARAT | 1134 | 217 | 4 | 1355 |
| 8 | HARYANA | 103 | 39 | 1 | 143 |
| 9 | HIMACHAL PRADESH | 8 | 1 | 0 | 9 |
| 10 | JHARKHAND | 95 | 18 | 0 | 113 |
| 11 | KARNATAKA | 199 | 71 | 0 | 270 |
| 12 | KERALA | 34 | 17 | 2 | 53 |
| 13 | MADHYA PRADESH | 420 | 39 | 1 | 460 |
| 14 | MAHARASHTRA | 1649 | 271 | 0 | 1920 |
| 15 | MANIPUR | 25 | 11 | 0 | 36 |
| 16 | MEGHALAYA | 3 | 0 | 0 | 3 |
| 17 | MIZORAM | 0 | 0 | 0 | 0 |
| 18 | NAGALAND | 0 | 0 | 0 | 0 |
| 19 | ODISHA | 32 | 18 | 0 | 50 |
| 20 | PUNJAB | 205 | 47 | 0 | 252 |
| 21 | RAJASTHAN | 392 | 45 | 2 | 439 |
| 22 | SIKKIM | 0 | 0 | 0 | 0 |
| 23 | TAMIL NADU | 366 | 60 | 0 | 426 |
| 24 | TELANGANA | 76 | 26 | 1 | 103 |
| 25 | TRIPURA | 1 | 0 | 0 | 1 |
| 26 | UTTAR PRADESH | 1633 | 214 | 3 | 1850 |
| 27 | UTTARAKHAND | 21 | 12 | 0 | 33 |

| | | | | | |
|--------------|-----------------------------|-------------|-------------|-----------|-------------|
| 28 | WEST BENGAL | 84 | 20 | 3 | 107 |
| 29 | ANDAMAN AND NICOBAR ISLANDS | 5 | 2 | 0 | 7 |
| 30 | CHANDIGARH | 5 | 4 | 0 | 9 |
| 31 | DADAR AND NAGAR HAVELI | 0 | 2 | 0 | 2 |
| 32 | DAMAN AND DIU | 1 | 1 | 0 | 2 |
| 33 | DELHI | 217 | 65 | 1 | 283 |
| 34 | JAMMU AND KASHMIR | 2 | 4 | 0 | 6 |
| 35 | LADAKH | 0 | 0 | 0 | 0 |
| 36 | LAKSHADWEEP | 0 | 0 | 0 | 0 |
| 37 | PUDUCHERRY | 1 | 2 | 0 | 3 |
| Total | | 7184 | 1280 | 20 | 8484 |

2. **Clusters** : No cluster is available at present.
3. **Possibilities of cluster** : Cluster Possibilities is available in the state of Haryana,Punjab,Rajastan, Gujarat and Maharashtra lot of manufacturing industries for Hinges, Hasps and stapples.
4. No. of Industries available in large scale industries (To be obtained from state govt.)
5. **Data about Imports:Import Details**

Total quantity imported in the last five completed years (in Rs. Lakhs)

| HS Code | Description | Unit | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------|--|------|---------|---------|---------|---------|---------|
| 83021010 | Hinges of steel | Kg | 24.74 | 22.68 | 39.12 | 34.26 | 42.12 |
| 83021020 | Hinges of brass | Kg | 0.38 | 0.14 | 0.42 | 0.48 | 0.39 |
| 83021090 | Hinges of Other base metal including aluminium | Kg | 192.72 | 195.08 | 192.63 | 190.45 | 211.09 |
| 73170091 | Staples other than in strips & drawing pin | Kg | 3.08 | 2.73 | 2.84 | 2.79 | 0.34 |
| 83052000 | Staples in strips | Kg | 10.41 | 7.56 | 16.13 | 22.1 | 28.98 |
| 83024110 | Fittings for doors and windows: Suitable for Bldgs | Kg | 48.51 | 46.99 | 59.22 | 67.74 | 79.49 |

Value of Imports in the last five completed years (Values in Rs. Crore)

| HS Code | Description | Unit | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------------|--|-------------|----------------|----------------|----------------|----------------|----------------|
| 83021010 | Hinges of steel | Kg | 71.26 | 71.13 | 83.96 | 91.77 | 91.35 |
| 83021020 | Hinges of brass | Kg | 1.19 | 0.62 | 1.02 | 1.50 | 1.58 |
| 83021090 | Hinges of Other base metal including aluminium | Kg | 464.99 | 502.22 | 487.54 | 529.34 | 496.39 |
| 73170091 | Staples other than in strips & drawing pin | Kg | 3.59 | 2.98 | 2.6 | 2.33 | 0.47 |
| 83052000 | Staples in strips | Kg | | 5.46 | 12.41 | 18.32 | 23 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | Kg | 167.51 | 171.87 | 213.06 | 248.32 | 227.05 |

Note:- **Quantity break-up of imports w.r.t. each country or origin for the last five completed years to attached in Annexure-1**

Cost of Import (Value/Quantity)

| HS Code | Description | Cost per Unit of Import in 2019-20 (in Rs.) |
|----------------|--|--|
| 83021010 | Hinges of steel | 216.88 |
| 83021020 | Hinges of brass | 405.13 |
| 83021090 | Hinges of Other base metal including aluminium | 235.16 |
| 73170091 | Staples other than in strips & drawing pin | 138.24 |
| 83052000 | Staples in strips | 79.37 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | 285.63 |

Export Details

Total quantity exported during the last five completed years (in Lakhs)

| HS Code | Description | Unit | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------------|--|-------------|----------------|----------------|----------------|----------------|----------------|
| 83021010 | Hinges of steel | Kg | 108.64 | 109.45 | 110.04 | 109.46 | 105.27 |
| 83021020 | Hinges of brass | Kg | 12.28 | 9.24 | 10.76 | 8.92 | 10.21 |
| 83021090 | Hinges of Other base metal including aluminium | Kg | 38.81 | 40.49 | 59.88 | 58.11 | 47.22 |
| 73170091 | Staples other than in Strips & Drawing Pin | Kg | 0.31 | 0.04 | 0.03 | 0.04 | 0.01 |
| 83052000 | Staples in Strips | Kg | 28.77 | 29.06 | 34.18 | 41.31 | 41.66 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | Kg | 191.79 | 205.17 | 193.97 | 184.23 | 177.23 |

Total value of exports during the last five completed years (Rs. Crore)

| HS Code | Description | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------------|--|----------------|----------------|----------------|----------------|----------------|
| 83021010 | Hinges of steel | 131.8 | 143.2 | 139.5 | 151.7 | 164.1 |
| 83021020 | Hinges of brass | 62.3 | 54.2 | 64.1 | 53.3 | 56.6 |
| 83021090 | Hinges of Other base metal including aluminium | 88.9 | 87.9 | 110.0 | 132.0 | 116.1 |
| 73170091 | Staples other than in Strips & Drawing Pin | 0.5 | 0.1 | 0.0 | 0.1 | 0.1 |
| 83052000 | Staples in Strips | 56.4 | 59.3 | 64.6 | 81.9 | 73.7 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | 6.4 | 7.0 | 6.5 | 6.7 | 6.5 |

Note:- **Quantity break-up of exports w.r.t. each country of origin for the last five completed years is attached in Annexure-2**

Cost of Exports (Value/Quantity)

| HS Code | Description | Cost per Unit of Export in 2019-20 (in Rs.) |
|----------------|--|--|
| 83021010 | Hinges of steel | 155.88 |
| 83021020 | Hinges of brass | 554.22 |
| 83021090 | Hinges of Other base metal including aluminium | 245.85 |
| 73170091 | Staples other than in Strips & Drawing Pin | 794.74 |
| 83052000 | Staples in Strips | 176.84 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | 3.64 |

Forecast: Due to economic slowdown in several developed as well as emerging regions of the world followed by the unprecedented pandemic across the globe,

global trade has been hampered substantially and export/import trend has become sporadic. Forecast at this juncture may differ from the actual future value.

Demand in Domestic Market:-

The demand for hinges depends mainly on the performance of its end user (i.e. the construction and furniture manufacturing sectors). Therefore, the demand for the products under consideration is a derived demand, which depends directly on the performance of its major end user.

Hinges are manufactured using stainless steel alloy, Brass etc. It is used in various commercial and domestic areas such as cabinet, doors, closet, windows, rooms and bathrooms. The hinges are made of using quality alloy and technology to make it offer a smooth function. Hinges is utilized in glass, wooden or metal door as it offers high safety in locking the doors or close.

Features: Excellent strength• Rust resistance• Durability•

Hinges are ideal for self-closing doors or cabinets, and are available in various sizes, with square or radius corners. These special hinges act as an excellent alternative to overhead mounted closers on doors. Features like corrosion resistance, durability and high tensile strength make it in high demand in the consumer market. SS hinges are widely used in doors and windows. Steel Hinges are great for Outdoor Use and Pool Areas.

Demand in Export Market:-

Total value of exports during the last five completed years (Rs. Crore)

| HS Code | Description | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------------|--|----------------|----------------|----------------|----------------|----------------|
| 83021010 | Hinges of steel | 131.8 | 143.2 | 139.5 | 151.7 | 164.1 |
| 83021020 | Hinges of brass | 62.3 | 54.2 | 64.1 | 53.3 | 56.6 |
| 83021090 | Hinges of Other base metal including aluminium | 88.9 | 87.9 | 110.0 | 132.0 | 116.1 |
| 73170091 | Staples other than in Strips & Drawing Pin | 0.5 | 0.1 | 0.0 | 0.1 | 0.1 |
| 83052000 | Staples in Strips | 56.4 | 59.3 | 64.6 | 81.9 | 73.7 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | 6.4 | 7.0 | 6.5 | 6.7 | 6.5 |

PROJECT PROFILE

TECHNICAL DETAILS:-

1. Manufacturing of Hinges, Hasps and staples are coming under Builders Hardware Industry (the construction and furniture manufacturing sectors). (Manufacture of other fabricated metal products, metal working service activities).
2. End users of these products are Builders and furniture manufacturers.
3. Indian specifications :-
 - (a) Stainless steel Butt Hinges IS 12817:2013
 - (b) Steel Butt Hinges IS 1341: 1992
 - (c) Continuous (Piano)Hinges IS 38181992
 - (d) Hasps and Staples IS 363:1993
4. International standards:
 - (a) DIN EN 1935 classification of Hinges
 - (b) BS EN 1935:2002 Hinges
 - (c) ANSI 156.1

Hinge is a mechanical component that's used to join the surfaces of two objects. It allows the surfaces to rotate around a fixed axis. One of the most common applications of hinges is doors. Whether in a home or commercial workplace, doors are usually installed into the door frame using a hinge. The hinge keeps the door in place while also allowing it to rotate open and closed.

If you're planning to buy hinges for your company, though, you might be wondering which material is best: aluminum or steel. Hinges are available in several different materials, two of the most common being aluminum and steel. And while both materials can be used to create effective, high-quality hinges, there are a few nuances between the two.

Steel Hinges

Steel hinges are strong, long-lasting and highly durable. Steel itself is an alloy featuring a combination of iron, carbon and other trace elements. Because it's made of readily available materials, steel hinges are also inexpensive. For these reasons, steel hinges have become a popular choice among manufacturing companies and other buyers.

All steel features iron and carbon, but there are different types of steel. Some hinges, for example, are made of traditional steel, whereas others are made of

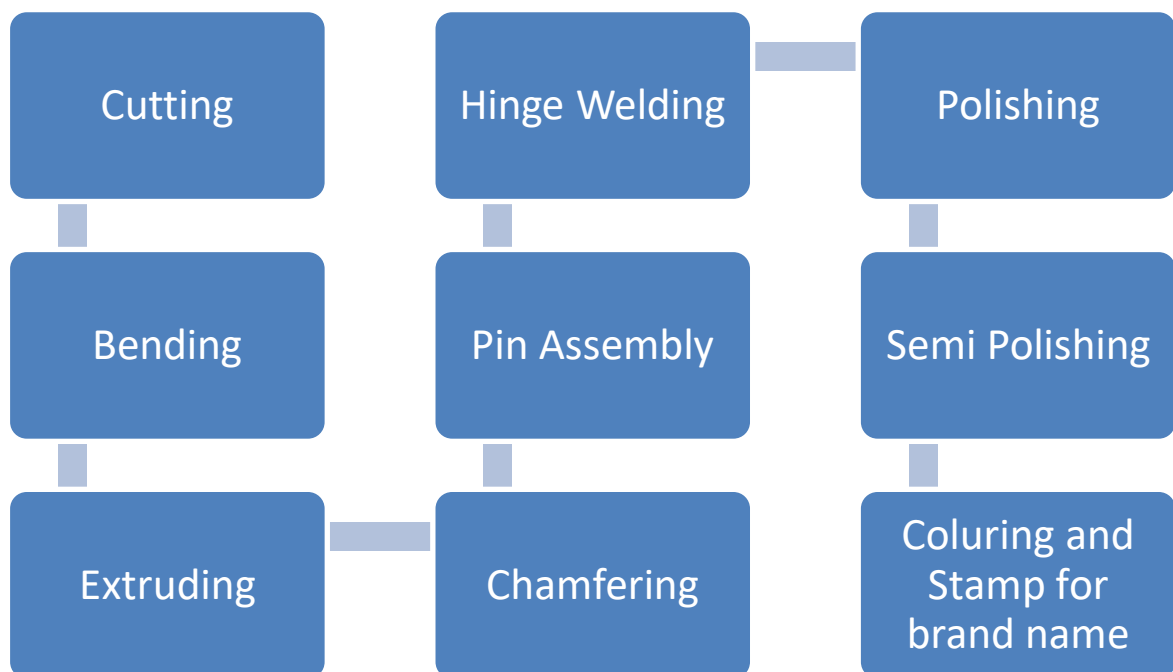
stainless steel. Stainless steel is characterized by added chromium, which works to protect the metal from rust and oxidation. It's called "stainless steel" because the added layer of chromium prevents the intrusion of moisture. When moisture isn't able to reach the iron compounds within a steel hinge, it won't develop rust or corrosion. Traditional steel lacks this protective layer of chromium, making it vulnerable to rust and corrosion.

Aluminum Hinges

Aluminum hinges aren't quite as strong as steel hinges, but they weigh less than their steel counterparts. Aluminum weighs about 40% less than steel. In applications where multiple hinges are used, this means that using aluminum hinges can reduce the overall weight and, subsequently, stress placed on the connected objects.

Another benefit of choosing aluminum hinges is the fact that they don't rust. Rust, as previously mentioned, occurs when moisture — technically the oxygen within moisture — comes into contact with iron. Aluminum doesn't contain iron, however, so it doesn't rust, even when exposed to moisture. Unless it's made of aluminum oxide, aluminum can still corrode, but it won't rust. As a result, aluminum hinges are often used outdoors where the climate can't be easily controlled.

Flow Chart:-



Quality control and specification:

For high quality of builders hardware, it is necessary to have strict inspection at every stage of production process. The raw materials and other bought of parts should be thoroughly inspected for quality. The builders hardware should be manufactured as per the following IS specifications:

- | | |
|--------------------------------|---------------|
| 1. Stainless steel Butt Hinges | IS 12817:2013 |
| 2. Steel Butt Hinges | IS 1341: 1992 |
| 3. Continuous (Piano)Hinges | IS 38181992 |
| 4. Hasps and Staples | IS 363:1993 |
| 5. Aluminium Hinges | IS 205-1992 |

Production capacity (Per annum)

- | | |
|---------------|-------------|
| (a) SS hinges | 5000 Dozens |
| (b) Al hinges | 5000 Dozens |
| (c) Hasps | 1000 Dozens |
| (d) Staples | 1000 Dozens |

Value: Rs. **27,463,200-00**

Motive Power Requirement: 30 HP

1. Financial Aspects:-

1. Land and Building

200Sq.Mtr on rent basis @Rs.150/per square mtr=Rs.30000/-per month

2. Machinery and Equipment

The following machines and equipment's will be necessary for the manufacture of builders hardware:-

| S.No | Machines | Qty | Price(Rs) |
|------|---------------------------------------|------|-----------|
| 1 | Power press | 2Nos | 10,00,000 |
| 2 | Bending Machine Hand operated | 2Nos | 2,00,000 |
| 3 | Horizontal Extrusion Machine | 1No | 1,00,000 |
| 4 | Universal Milling Machine | 1No | 3,00,000 |
| 5 | Bench Drilling Machine 13mm Dia | 4nos | 1,68,000 |
| 6 | Hand Fly Press No.4 | 4Nos | 1,60,000 |
| 7 | Metal Cutting Circular Saw Cap:250dia | 2nos | 1,20,000 |

| | | | |
|----|---|-------|-----------------|
| 8 | Sheet Shearing Machine | 1no | 2,00,000 |
| 9 | Buffing Machine double ended | 2no.s | 50,000 |
| 10 | Punching Machine with punches,hand operated up to 8mm thick plate | 1 no. | 4,00,000 |
| 11 | Revitting Machine work table 200x200mm and 2x8mm | 1no | 40,000 |
| 12 | Arbor press 500kg | 1No | 20,000 |
| 13 | Anodizing bath with complete set of polishing machines | 1 set | 4,00,000 |
| 14 | Lathe 600 swing 355mm Dia | 1no | 2,00,000 |
| 15 | Hand Tools, Cutters, Dies and precision Instruments | L.S | 2,00,000 |
| 16 | Material Handling Equipment's Trolley pallets, Bins etc., | L.S | 50,000 |
| 17 | Office Equipment's | L.S | 50,000 |
| 18 | Electrification, erection and installation charges | L.S | 25,000 |
| | Fixed Capital | | 36,33000 |

2. Working Capital (Per Month)

1. Personnel

The following staff/Manpower will be required:-(Rs.)

| | | | |
|----|---------------------|-------|-------------------|
| 1 | Works Manager | 1 No. | 40,000-00 |
| 2. | Engineers | 1 No | 30,000-00 |
| 3. | Supervisors | 1 Nos | 25,000-00 |
| 4. | Skilled Workers | 4 Nos | 1,20,000-00 |
| 5. | Semi-Skilled worker | 3 Nos | 60,000-00 |
| 6. | Typist-Cum-Clerk | 1 No. | 20,000-00 |
| 7 | Security | 1 No. | 20,000-00 |
| 8 | Peon | 1 No. | 10,000-00 |
| | | | 305,000-00 |

2. Raw Material

(a) Flap: Stainless Steel Grade:X15Cr16Ni2 or X07Cr18Ni9 of IS6911

Mild Steel Sheet Grade: 0 of IS 1079:1988

Aluminium alloy sheet: 19000 H2 or 31000 H2 of IS 737:1986

Cold rolled low carbon steel sheets Grade D of IS 513:1986

(b) Pin: Stainless Steel Grade: X04Cr18Ni10 or X07Cr18Ni9 of IS6528
Mild Steel Grade O of IS 1079:1988 / IS 513:1986

(c) Hasps & Straps : Extruded Aluminium alloy 63400 WP of IS
733:1983 / IS 1285:1985

Aluminium Alloy Sheet : 52 000-HI of IS 737:1986

Mild Steel Grade O of IS 1079:1988 / IS 513:1986

Aluminium alloys bars, rods and wire 63400 WP

| | |
|--|--------------------|
| 2Metric tons : | 3,00,000-00 |
| Chemical for Anodising | 30,000-00 |
| Packing Material and Miscellaneous items | <u>20,000-00</u> |
| Total | <u>3,50,000-00</u> |

3. Utilities(Per Month)

Electric power and water charges L.S 9000-00

4. Other Expenses(Per Month)

| | |
|----------------------------|------------------|
| (a) Rent | 30000-00 |
| (b) Postage and stationery | 1000-00 |
| (c) Repair and Maintenance | 5000-00 |
| (d) Transport Charges | 5000-00 |
| (e) Miscellaneous | <u>10000-00</u> |
| | <u>42,000-00</u> |

5. Total Recurring Expenditure (P.M): 7,06,000

6. Total Capital Investment

| | |
|-----------------------------------|---------------------|
| (1) Machine and Equipment | 36,33,000-00 |
| (2) Working capital for 03 Months | <u>2,118,000-00</u> |
| | <u>5,751,000-00</u> |

Financial Analysis :-

Cost of production (Per annum)

| | |
|--|----------------|
| (1) Recurring cost(per annum) | : 8,472,000-00 |
| (2) Depreciation on Machines and Equipment @ 10% | : 363,300-00 |

(3)Interest on total capital investment @Rs18% : 653,940-00
 Total : 94,89,240-00

Turnover (Per Annum)

SS Hinges 5000 Dozens @155.88 : 9,352,800-00
 (or)
 Al. Hinges 5000 Dozens @245.85 : 14,751,000-00
 Hasps 1000 Dozens @125 : 1,500,000-00
 (or)
 Staples 1000 Dozens @176.84 : 2,122,080-00
12,974,880-00

Net Profit (Per Annum):

= Turn Over – Cost of production
 = Rs.12,974,880 – Rs.9,489,240 =Rs.34,85,640-00

Net Profit Ratio:

$$= \frac{\text{Net Profit} \times 100}{\text{Turnover}} = \frac{34,85,640 \times 100}{12,974,880} = 26.86\%$$

Rate of return:-

$$\frac{\text{Net profit} \times 100}{\text{Total capital Investment}} = \frac{3,485,640 \times 100}{36,33000} = 95.9\%$$

Break-Even-Point

(a)Fixed cost
 (1) Depreciation 3,63,300-00
 (2) Interest 6,53,940-00
 (3)40% Salary and wages 1,22,000-00
 (4)40% Other Expenses 16,800-00
1,156,040-00

$$\text{BEP} = \frac{\text{Fixed cost} \times 100}{\text{Fixed cost} + \text{Profit}} = \frac{1,156,040 \times 100}{1,156,040 + 3,485,640} = 24.9\%$$

Fixed cost +Profit 1,156,040+3,485,640

Names and Addresses of Machinery and equipment suppliers:

- 1.M/s.International Machine Tools Corpn, Mumbai
- 2.M/s.Quality Machine Tools,Mumbai
- 3.M/s.Jaymes Engineering Tools works,Kanpur
- 4.M/s.Ashoka Machine Tools Corporation,New Delhi
- 5.M/s.PremEngg.Works,New Delhi
- 6.M/s.Testing Machine corporation,Mumbai
- 7.M/s.Machinery Impex Corporation,Mumbai
- 8.M/s.Machine Tools Traders,Kolkata

Names and Addresses of Raw Material Suppliers:-

- 1.M/s.Jindal Aluminium,Bengaluru
- 2.M/s.Mahaveer Metal Woks Ltd.,Mumbai
- 3.M/s.PatelAluminiumPvt.Ltd,Mumbai
- 4.M/s.Pankaj Metal Corporation,Mumbai.

Comparison of Imports and Exports from last 5 Years

(i) Value of Imports in the last five completed years (Values in Rs. Crore)

| | Description | Unit | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------|--|------|---------|---------|---------|---------|---------|
| 83021010 | Hinges of steel | Kg | 71.26 | 71.13 | 83.96 | 91.77 | 91.35 |
| 83021020 | Hinges of brass | Kg | 1.19 | 0.62 | 1.02 | 1.50 | 1.58 |
| 83021090 | Hinges of Other base metal including aluminium | Kg | 464.99 | 502.22 | 487.54 | 529.34 | 496.39 |
| 73170091 | Staples other than in strips & drawing pin | Kg | 3.59 | 2.98 | 2.6 | 2.33 | 0.47 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | Kg | 167.51 | 171.87 | 213.06 | 248.32 | 227.05 |

(ii) Total value of exports during the last five completed years (Rs. Crore)

| HS Code | Description | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|----------|--|---------|---------|---------|---------|---------|
| 83021010 | Hinges of steel | 131.8 | 143.2 | 139.5 | 151.7 | 164.1 |
| 83021020 | Hinges of brass | 62.3 | 54.2 | 64.1 | 53.3 | 56.6 |
| 83021090 | Hinges of Other base metal including aluminium | 88.9 | 87.9 | 110.0 | 132.0 | 116.1 |
| 73170091 | Staples other than in strips & drawing pin | 0.5 | 0.1 | 0.0 | 0.1 | 0.1 |
| 83024110 | Fittings for doors and windows: Suitable for buildings | 6.4 | 7.0 | 6.5 | 6.7 | 6.5 |

Based on the above figures of Imports and Exports it is observed that

| | <u>Exports(Cr)</u> | <u>Imports(Cr)</u> |
|--|--------------------|--------------------|
| (1) Hinges of Steel : | 164.1 | 91.35 |
| (2) Hinges of Brass : | 56.6 | 1.58 |
| (3) Staples other than : Strips & Drawing pin | 0.1 | 0.47 |
| (4) Hinges of Other base metal | 116.1 | 496.39 |

SWOT ANALYSIS

To sum up the details accounted in the above sections, a SWOT analysis is the perfect tool to analyze the strength, weakness, opportunity and threat of domestically manufacturing “Hinges, Hasps and staples.”.

| STRENGTH | WEAKNESS |
|---|---|
| <ul style="list-style-type: none"> • Conventionally Simple process with High technology infusion to manufacture of this product. • Easily available technology • Flexible budget and can be started with any investment limit. • Fit to be manufactured in any location. • Availability of trained human resource • Existence of Ready market Real Estate, Construction Field, Furniture Manufacturing Industries • Govt’s favorable policy support for procurement • One of the 358 items to be purchased by the Govt. Agencies. • Existing Govt. schemes enable financial support with incentives for startups. • Lot of Scope for imports, it is already being export. • The investment is high inventory turnover ratio and bulk orders i.e mass production are the advantage of the product | <ul style="list-style-type: none"> • Mass Production, high skilled Man power are essential • Though existence of ready market, the size of the demand is very large, Automation is required • Automation is costly and High Capital Investment • smaller parts compact designs for components inherently shrink the “real estate’ available to place and install hardware. Miniature fastener types and styles have evolved to fit effectively in the increasingly restrictive design envelopes encountered in industries ranging from Building construction Industry. • Cost of Automation is High • This product is used by specific target groups and the percentage of the users is very limited. • Though lot of support measures are available, it is not easy for everyone to exploit the benefits. • Getting hand holding support at the rural area deprives prospects of many. • High Investment for automation • Competition with Domestic and globally • Customers requirement different designs, material etc • Increasing Raw material cost is day by day. |
| OPPORTUNITY | THREAT |
| <ul style="list-style-type: none"> • Participating the Domestic and global Trade Fairs, Exhibitions, Buyers - Sellers meets/ conferences, etc. for showcasing the products and trade negotiations from each side. • MSMEs participation in production network, value chains, manufacturing and services sector, technical assistance and capacity building. This will help boosting country’s MSME exports to new heights and restricting imports to large extent. • Demand is likely to increase steadily once the percentage of users of this item is increased by proper marketing techniques. • Sector/Product specific market studies may be given priority through International Exchange Programme under MSME Co-operation Scheme. | <ul style="list-style-type: none"> • Competition with Global market i.e china (Low price) • In Pandemic Covid – 19 situation many units which forced them to lock-down/closed restrict and their production their units/slashed working hours which resulted forced layoffs. • Due to slow down industrial activities i.e Real Estate. Construction Field many entrepreneurs restricting their production, as a result most of the units are unable to meet give salaries and utilities. i.e the basic expenses such as electricity bills and salary payments, etc. • PSU/CPSU’S and Govt. Organizations are payment delay to suppliers for slow-down of these MSME’S • Scarcity and non availability of raw materials such as alloys, stainless steel and copper in india are big draw back hindering the growth of the market. • The Increase of prices of raw materials, which are used in the manufacturer to reduce profitability. |

Conclusion

- 1) Hinges, Hasp and staples is reserved in 358 items for exclusive procurement from MSEs by CPSUs and Govt. departments. Hinges, Hatches and staples is domestic hardware material and used everywhere in construction field, Furniture manufacturing, it is also procured by general public to whom it is not mandatory to procure it from MSEs. Other than central govt. organizations and general public are procuring it from open market and also importing to suit their needs / passion
- 2) As per While getting raw material quotation its observed that, cost of china as compare to in India is cheaper than Indian specifications. Raw material cost affects profitability of enterprise. Govt should give subsidies on the raw materials.
- 3) e- market place is a platform created by Govt. of India for government procurement where suppliers are from only India. All reserved 358 items can be made mandatorily procure from GeM platform. It will help CPSUs / Govt. ministries to get vendor for all reserved items and there will be no import of these items.
- 4) Following cluster approach in manufacturing of hinges, hatches and staples its spares at established at SEZ, will reduce cost of raw material production, transportation cost etc, reduced cost of raw material will support to reduce import of hinges, hatches and staples
- 5) At present Scenario our Manufactures exporting steel hinges is more as compare to the Importing for last 05 year, Hence lot of potentiality is there for manufacturing of these products in india..

the above study report and Project salient features, the proposed activity seems to be technically feasible and economically viable for setting up of Hinges, Hasp and staples manufacturing units by prospective entrepreneurs. The demands of the Building materials, construction field is expected to expand in the globally by 5 to 10 percent making business of Hinges, Hasps and staples by the next 05 years plan. Establishment of more and more manufacturing units by the prospective entrepreneurs and technological upgradation of the existing units, (towards automation) coupled with the benefits out of the Government schemes would enhance the manufacturing potential of the domestic Hinges, Hasp and staples producers leads to reduction of imports, increase in exports and also generate employment opportunities

--END--

Annexure-1

Quantity break-up of imports w.r.t. each country or origin for the last five completed years

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|---------|---------|---------|---------|---------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| HUNGARY | | | | 0.42 | |
| PHILIPPINES | 2.83 | 0.2 | | | |
| CHINA P RP | 1470.56 | 1526.77 | 2599.28 | 2485.98 | 3142.64 |
| KOREA RP | 303.51 | 373.13 | 586.92 | 428.85 | 611.51 |
| HONG KONG | 3.82 | 4.84 | 10.19 | 62.84 | 200.35 |
| BELGIUM | | 0.22 | 1.27 | 7.37 | 160.22 |
| GERMANY | 315.77 | 207.53 | 491.12 | 30.81 | 41.49 |
| SINGAPORE | 1.35 | 0.28 | 0.01 | 9.24 | 10.85 |
| U S A | 5.15 | 1.31 | 6.14 | 4.69 | 9.2 |
| TAIWAN | 3.43 | 10.94 | 24.58 | 7.2 | 8.04 |
| JAPAN | 14.75 | 9.84 | 8.23 | 4.27 | 5.54 |
| UNSPECIFIED | | | 1.62 | 0.77 | 4.76 |
| TURKEY | 0.01 | 0.01 | 0.03 | 0.03 | 2.4 |
| CZECH REPUBLIC | | 0 | 0 | 0.11 | 1.92 |
| NETHERLAND | 4.1 | 0.05 | 9.71 | 269.46 | 1.9 |
| DENMARK | 0 | 1.07 | 0.02 | 0.28 | 1.77 |
| INDONESIA | 24.15 | 2.23 | 2.69 | 0.02 | 1.67 |
| ITALY | 0.94 | 2.35 | 2.63 | 6.01 | 1.48 |
| POLAND | | 0.05 | 0.89 | 8.1 | 1.28 |
| THAILAND | 81.46 | 29.86 | 24.15 | 2.09 | 1.08 |
| U K | 31.13 | 3.61 | 73.48 | 57.6 | 0.78 |
| U ARAB EMTS | 0.39 | 0.47 | 0.21 | 21.24 | 0.73 |
| AUSTRIA | 0.91 | 7.26 | 5.21 | 0 | 0.72 |
| VIETNAM SOC REP | 0.98 | 0.1 | | | 0.71 |
| FRANCE | 2.57 | 3.11 | 4.11 | 1.95 | 0.5 |
| BRAZIL | 183.26 | 66.4 | 45.94 | 0.27 | 0.35 |
| AUSTRALIA | | | | | 0.1 |
| SPAIN | 2.13 | 0.18 | | 0.01 | 0.1 |
| CANADA | 1.45 | 0.04 | 0.64 | | 0.05 |
| BANGLADESH PR | | | | | 0 |
| SWITZERLAND | 0.05 | | | 0.01 | 0 |
| ROMANIA | 9.66 | 10.5 | 7.01 | 2.02 | 0 |
| SWEDEN | 0.38 | 2.1 | 2.42 | 2.46 | 0 |
| FINLAND | | | | 5.1 | 0 |
| BULGARIA | | | 0.04 | | |
| GREECE | | | 0.05 | | |

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| IRELAND | | | | 6.96 | |
| ISRAEL | 0 | | | | |
| KUWAIT | | | 0.4 | | |
| MALAYSIA | 2.29 | 0.01 | 0.04 | 0 | |
| MEXICO | 0.02 | | 0.2 | 0.12 | |
| MOROCCO | 3.7 | 2.45 | 1 | | |
| NEW ZEALAND | | 0.38 | 0.1 | | |
| PORTUGAL | 1.11 | | 0.9 | | |
| SLOVENIA | | | | 0.18 | |
| SRI LANKA DSR | 2.21 | 1.22 | 0.9 | | |
| TANZANIA REP | | | | 0.06 | |

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| HUNGARY | | | | 0.42 | |
| PHILIPPINES | 2.83 | 0.2 | | | |
| CHINA P RP | 1470.56 | 1526.77 | 2599.28 | 2485.98 | 3142.64 |
| KOREA RP | 303.51 | 373.13 | 586.92 | 428.85 | 611.51 |
| HONG KONG | 3.82 | 4.84 | 10.19 | 62.84 | 200.35 |
| BELGIUM | | 0.22 | 1.27 | 7.37 | 160.22 |
| GERMANY | 315.77 | 207.53 | 491.12 | 30.81 | 41.49 |
| SINGAPORE | 1.35 | 0.28 | 0.01 | 9.24 | 10.85 |
| U S A | 5.15 | 1.31 | 6.14 | 4.69 | 9.2 |
| TAIWAN | 3.43 | 10.94 | 24.58 | 7.2 | 8.04 |
| JAPAN | 14.75 | 9.84 | 8.23 | 4.27 | 5.54 |
| UNSPECIFIED | | | 1.62 | 0.77 | 4.76 |
| TURKEY | 0.01 | 0.01 | 0.03 | 0.03 | 2.4 |
| CZECH REPUBLIC | | 0 | 0 | 0.11 | 1.92 |
| NETHERLAND | 4.1 | 0.05 | 9.71 | 269.46 | 1.9 |
| DENMARK | 0 | 1.07 | 0.02 | 0.28 | 1.77 |
| INDONESIA | 24.15 | 2.23 | 2.69 | 0.02 | 1.67 |
| ITALY | 0.94 | 2.35 | 2.63 | 6.01 | 1.48 |
| POLAND | | 0.05 | 0.89 | 8.1 | 1.28 |
| THAILAND | 81.46 | 29.86 | 24.15 | 2.09 | 1.08 |
| U K | 31.13 | 3.61 | 73.48 | 57.6 | 0.78 |
| U ARAB EMTS | 0.39 | 0.47 | 0.21 | 21.24 | 0.73 |
| AUSTRIA | 0.91 | 7.26 | 5.21 | 0 | 0.72 |
| VIETNAM SOC REP | 0.98 | 0.1 | | | 0.71 |
| FRANCE | 2.57 | 3.11 | 4.11 | 1.95 | 0.5 |
| BRAZIL | 183.26 | 66.4 | 45.94 | 0.27 | 0.35 |

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| AUSTRALIA | | | | | 0.1 |
| SPAIN | 2.13 | 0.18 | | 0.01 | 0.1 |
| CANADA | 1.45 | 0.04 | 0.64 | | 0.05 |
| BANGLADESH PR | | | | | 0 |
| SWITZERLAND | 0.05 | | | 0.01 | 0 |
| ROMANIA | 9.66 | 10.5 | 7.01 | 2.02 | 0 |
| SWEDEN | 0.38 | 2.1 | 2.42 | 2.46 | 0 |
| FINLAND | | | | 5.1 | 0 |
| BULGARIA | | | 0.04 | | |
| GREECE | | | 0.05 | | |
| IRELAND | | | | 6.96 | |
| ISRAEL | 0 | | | | |
| KUWAIT | | | 0.4 | | |
| MALAYSIA | 2.29 | 0.01 | 0.04 | 0 | |
| MEXICO | 0.02 | | 0.2 | 0.12 | |
| MOROCCO | 3.7 | 2.45 | 1 | | |
| NEW ZEALAND | | 0.38 | 0.1 | | |
| PORTUGAL | 1.11 | | 0.9 | | |
| SLOVENIA | | | | 0.18 | |
| SRI LANKA DSR | 2.21 | 1.22 | 0.9 | | |
| TANZANIA REP | | | | 0.06 | |
| Hinges of Brass (HS Code 83021020) (Quantity in Thousand, Unit in Kg) | | | | | |
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| CHINA P RP | 29.81 | 11.77 | 38.91 | 44.64 | 34.66 |
| HONG KONG | 6.41 | | 0.01 | 1.77 | 2.95 |
| UNSPECIFIED | | | 0.27 | | 0.64 |
| U K | 0 | 0.05 | 1 | 0.22 | 0.5 |
| ITALY | 0.61 | 0.12 | 0.08 | 0.15 | 0.26 |
| GERMANY | | | 1.85 | 0.54 | 0.15 |
| FRANCE | | | | 0.01 | 0.12 |
| MALAYSIA | | | | | 0.03 |
| KOREA RP | | 0.44 | 0.01 | | 0.01 |
| SWITZERLAND | | | 0.04 | 0 | 0.01 |
| U S A | 0.83 | 1.65 | 0.21 | | 0.01 |
| BELGIUM | | 0.15 | | 0.02 | 0 |
| BAHARAIN IS | 0.05 | | | | |
| JAPAN | | | | 0.25 | |
| NEPAL | | | 0.06 | | |
| SINGAPORE | 1.2 | | | 0.11 | |
| TAIWAN | | | 0.04 | 0 | |
| THAILAND | | 0.03 | 0.2 | | |

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| TURKEY | | | 0 | 0.15 | |
| U ARAB EMTS | 0.04 | 0.27 | 0.04 | 0.96 | |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| LITHUANIA | | 0.03 | | | |
| UNSPECIFIED | 1.41 | | 0.06 | | |
| SOUTH AFRICA | | | 0.02 | 0 | |
| ROMANIA | 5.72 | | 0.56 | | |
| ESTONIA | 0.07 | 0.09 | | | |
| CHINA P RP | 13517.14 | 13043.1 | 14281.94 | 13605.69 | 15954.38 |
| HONG KONG | 236.29 | 71.05 | 30.89 | 1919.06 | 2475.78 |
| GERMANY | 3585.61 | 4239.9 | 2752.86 | 2118.17 | 1480.6 |
| KOREA RP | 562.47 | 497.14 | 904.07 | 801.12 | 614.38 |
| NETHERLAND | 1.67 | 0.51 | 3.32 | 26.93 | 136.48 |
| BELGIUM | 4.48 | 2.71 | 4.78 | 136.5 | 99.12 |
| AUSTRIA | 45.96 | 41.49 | 223.21 | 7.95 | 66.83 |
| THAILAND | 12.8 | 27.26 | 50.27 | 79.31 | 58.55 |
| ITALY | 38.9 | 42.48 | 63.54 | 42.08 | 42.66 |
| JAPAN | 106.47 | 51.1 | 42.83 | 33.35 | 35.98 |
| U K | 47.04 | 37.94 | 45.8 | 70.28 | 31.58 |
| U S A | 66.52 | 52.13 | 111.39 | 38.02 | 29.67 |
| TURKEY | 15.32 | 43.64 | 60.31 | 38.68 | 19.39 |
| TAIWAN | 897.82 | 1252.66 | 499.42 | 8.85 | 11.11 |
| SRI LANKA DSR | 20.48 | 29.55 | 26.8 | 19.19 | 7.77 |
| MALAYSIA | 25.53 | 10.45 | 14.72 | 16.27 | 7.59 |
| SWEDEN | 1.45 | 5.27 | 13.54 | 4.28 | 6.12 |
| SINGAPORE | 17.78 | 19.15 | 4.61 | 10.21 | 5.87 |
| FRANCE | 5.34 | 9.19 | 13.85 | 5.03 | 4.16 |
| U ARAB EMTS | 4.03 | 2.31 | 1.7 | 1.33 | 3.69 |
| SPAIN | 22.3 | 6.38 | 0.8 | 1.04 | 2.57 |
| CANADA | 0.26 | 0.68 | 1.9 | 1.78 | 2.45 |
| VIETNAM SOC REP | 3.31 | 0.15 | 0.01 | 1.07 | 2.15 |
| GREECE | 0.25 | 0.05 | 1.25 | 0.27 | 1.56 |
| DENMARK | 0.71 | 0.74 | 0.81 | 0.34 | 1.07 |
| CZECH REPUBLIC | 5.59 | 2.24 | 1.16 | 0.62 | 1.01 |
| NAURU RP | | | | | 1 |
| SWITZERLAND | 2.05 | 0.83 | 5.59 | 3.97 | 0.94 |
| FINLAND | 5.43 | 3.05 | 0.93 | 0.44 | 0.84 |
| CROATIA | | | | | 0.65 |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| CHILE | 0.1 | | | | 0.61 |
| POLAND | 0.22 | 2.64 | 2.2 | 0.54 | 0.61 |
| AUSTRALIA | 3.33 | 2.01 | 0.77 | 1.61 | 0.61 |
| JORDAN | | | | 0.01 | 0.47 |
| MEXICO | 2.36 | 5.98 | 75.77 | 49.89 | 0.27 |
| PORTUGAL | 1.3 | 2.33 | 2.18 | 0.32 | 0.21 |
| INDONESIA | | 0.02 | 0.03 | | 0.17 |
| HUNGARY | 0.2 | | 0.01 | 0.26 | 0.15 |
| ISRAEL | 0.04 | 0.74 | 5.05 | 0.15 | 0.09 |
| SLOVENIA | | 0 | | 0.1 | 0.08 |
| BRAZIL | 0.89 | 0.6 | 1.13 | 0.34 | 0.07 |
| PHILIPPINES | 0.01 | 0.01 | 1.34 | | 0.06 |
| SLOVAK REP | 0.02 | | 0 | 0.6 | 0.05 |
| BAHARAIN IS | | | | | 0.04 |
| IRELAND | 0.24 | 0.26 | 0.12 | 0.14 | 0.04 |
| NEW ZEALAND | | | | 0 | 0 |
| NORWAY | 0.13 | 0.02 | | | 0 |
| BOSNIA-HRZGOVIN | | | 0.03 | | |
| EGYPT A RP | | 0.02 | | | |
| KOREA DP RP | | 0.2 | | | |
| KUWAIT | | | 0.05 | | |
| LUXEMBOURG | 0.01 | | | | |
| NETHERLANDANTIL | | | 0.01 | | |
| OMAN | 0 | 0 | 0.01 | 0.05 | |
| PAKISTAN IR | | | | 0.01 | |
| QATAR | | | | 0.01 | |
| RUSSIA | 3.36 | 0.01 | 12.11 | | |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| LITHUANIA | | 0.03 | | | |
| UNSPECIFIED | 1.41 | | 0.06 | | |
| SOUTH AFRICA | | | 0.02 | 0 | |
| ROMANIA | 5.72 | | 0.56 | | |
| ESTONIA | 0.07 | 0.09 | | | |
| CHINA P RP | 13517.14 | 13043.1 | 14281.94 | 13605.69 | 15954.38 |
| HONG KONG | 236.29 | 71.05 | 30.89 | 1919.06 | 2475.78 |
| GERMANY | 3585.61 | 4239.9 | 2752.86 | 2118.17 | 1480.6 |
| KOREA RP | 562.47 | 497.14 | 904.07 | 801.12 | 614.38 |
| NETHERLAND | 1.67 | 0.51 | 3.32 | 26.93 | 136.48 |

| Hinges of Other base metal including aluminium (HS Code 83021090) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| (Quantity in Thousand, Unit in Kg) | | | | | |
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| BELGIUM | 4.48 | 2.71 | 4.78 | 136.5 | 99.12 |
| AUSTRIA | 45.96 | 41.49 | 223.21 | 7.95 | 66.83 |
| THAILAND | 12.8 | 27.26 | 50.27 | 79.31 | 58.55 |
| ITALY | 38.9 | 42.48 | 63.54 | 42.08 | 42.66 |
| JAPAN | 106.47 | 51.1 | 42.83 | 33.35 | 35.98 |
| U K | 47.04 | 37.94 | 45.8 | 70.28 | 31.58 |
| U S A | 66.52 | 52.13 | 111.39 | 38.02 | 29.67 |
| TURKEY | 15.32 | 43.64 | 60.31 | 38.68 | 19.39 |
| TAIWAN | 897.82 | 1252.66 | 499.42 | 8.85 | 11.11 |
| SRI LANKA DSR | 20.48 | 29.55 | 26.8 | 19.19 | 7.77 |
| MALAYSIA | 25.53 | 10.45 | 14.72 | 16.27 | 7.59 |
| SWEDEN | 1.45 | 5.27 | 13.54 | 4.28 | 6.12 |
| SINGAPORE | 17.78 | 19.15 | 4.61 | 10.21 | 5.87 |
| FRANCE | 5.34 | 9.19 | 13.85 | 5.03 | 4.16 |
| U ARAB EMTS | 4.03 | 2.31 | 1.7 | 1.33 | 3.69 |
| SPAIN | 22.3 | 6.38 | 0.8 | 1.04 | 2.57 |
| CANADA | 0.26 | 0.68 | 1.9 | 1.78 | 2.45 |
| VIETNAM SOC REP | 3.31 | 0.15 | 0.01 | 1.07 | 2.15 |
| GREECE | 0.25 | 0.05 | 1.25 | 0.27 | 1.56 |
| DENMARK | 0.71 | 0.74 | 0.81 | 0.34 | 1.07 |
| CZECH REPUBLIC | 5.59 | 2.24 | 1.16 | 0.62 | 1.01 |
| NAURU RP | | | | | 1 |
| SWITZERLAND | 2.05 | 0.83 | 5.59 | 3.97 | 0.94 |
| FINLAND | 5.43 | 3.05 | 0.93 | 0.44 | 0.84 |
| CROATIA | | | | | 0.65 |
| CHILE | 0.1 | | | | 0.61 |
| POLAND | 0.22 | 2.64 | 2.2 | 0.54 | 0.61 |
| AUSTRALIA | 3.33 | 2.01 | 0.77 | 1.61 | 0.61 |
| JORDAN | | | | 0.01 | 0.47 |
| MEXICO | 2.36 | 5.98 | 75.77 | 49.89 | 0.27 |
| PORTUGAL | 1.3 | 2.33 | 2.18 | 0.32 | 0.21 |
| INDONESIA | | 0.02 | 0.03 | | 0.17 |
| HUNGARY | 0.2 | | 0.01 | 0.26 | 0.15 |
| ISRAEL | 0.04 | 0.74 | 5.05 | 0.15 | 0.09 |
| SLOVENIA | | 0 | | 0.1 | 0.08 |
| BRAZIL | 0.89 | 0.6 | 1.13 | 0.34 | 0.07 |
| PHILIPPINES | 0.01 | 0.01 | 1.34 | | 0.06 |
| SLOVAK REP | 0.02 | | 0 | 0.6 | 0.05 |
| BAHARAIN IS | | | | | 0.04 |
| IRELAND | 0.24 | 0.26 | 0.12 | 0.14 | 0.04 |
| NEW ZEALAND | | | | 0 | 0 |
| NORWAY | 0.13 | 0.02 | | | 0 |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| BOSNIA-HRZGOVIN | | | 0.03 | | |
| EGYPT A RP | | 0.02 | | | |
| KOREA DP RP | | 0.2 | | | |
| KUWAIT | | | 0.05 | | |
| LUXEMBOURG | 0.01 | | | | |
| NETHERLANDANTIL | | | 0.01 | | |
| OMAN | 0 | 0 | 0.01 | 0.05 | |
| PAKISTAN IR | | | | 0.01 | |
| QATAR | | | | 0.01 | |
| RUSSIA | 3.36 | 0.01 | 12.11 | | |

| Staples other than in strips & drawing pin (HS Code 73170091) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| AUSTRIA | 249.79 | 255.1 | 255.65 | 271.15 | 29.46 |
| CHINA P RP | 1.86 | 1.53 | 5.13 | 0.53 | 3.18 |
| DENMARK | 0.78 | 0.26 | 0.1 | 0.31 | 1.13 |
| GERMANY | | | 0.01 | 0.48 | 0.3 |
| HONG KONG | 0.81 | 0.4 | 0.73 | 0.01 | 0.14 |
| ITALY | 0.05 | 0.42 | 2.01 | 0.6 | 0.08 |
| JAPAN | | 0.01 | | 0.1 | 0.05 |
| KOREA RP | 27.62 | 3.24 | 2.89 | 0.03 | 0.02 |
| MALAYSIA | | 0.8 | | | |
| QATAR | 0.16 | | | 6.3 | |
| SINGAPORE | 0.8 | 0.05 | 0.4 | 0.29 | |
| SPAIN | 26.75 | 2.92 | | | |
| SWEDEN | | 0.25 | | | |
| SWITZERLAND | | 0.01 | 0.01 | | |
| TAIWAN | 0.1 | | | | |
| THAILAND | 0.11 | | 0.04 | | |
| TURKEY | | 8.9 | 16.95 | | |
| U ARAB EMTS | 0.01 | | | | |
| U S A | 0.05 | 0.01 | 0.22 | | |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| COUNTRY | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| AUSTRIA | 1,021.61 | 736.77 | 1,537.39 | 2,014.39 | 2,695.87 |
| BELGIUM | | | 0.03 | 84.98 | 59.89 |
| CANADA | 0.56 | 0.45 | 1.59 | 28.28 | 27.12 |
| CHINA P RP | | | 0.06 | 6.42 | 22.03 |
| CYPRUS | 9.23 | 7.09 | 21.94 | 15.33 | 19.66 |
| DENMARK | 3.91 | | 19.62 | 37.19 | 18.54 |
| GERMANY | 0.05 | 0.84 | 9 | 2.3 | 14.47 |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| COUNTRY | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| GREECE | | 4.68 | 7.07 | 12.18 | 14.1 |
| HONG KONG | | | | 0.01 | 11.4 |
| ITALY | 1.87 | 0.92 | 0.75 | 0.84 | 3.9 |
| JAPAN | | | 2.75 | 0.27 | 2.76 |
| KOREA RP | 1.46 | 2.17 | 7.45 | 3.49 | 2.64 |
| MALAYSIA | 1.35 | 2.33 | 4.26 | 2.18 | 2.56 |
| MEXICO | 0.3 | 0.24 | 0.2 | 0.15 | 1.8 |
| NETHERLAND | | | | | 0.33 |
| OMAN | | | | 0.17 | 0.25 |
| SINGAPORE | 0.03 | | 0.2 | 1.24 | 0.21 |
| SLOVAK REP | 0 | 0 | | 1 | 0.06 |
| SPAIN | | | | | 0.05 |
| SWEDEN | | | | | 0.01 |
| SWITZERLAND | 0 | 0.04 | 0.9 | 0.04 | 0 |
| TAIWAN | | 0.5 | | | |
| THAILAND | 0.01 | | | | |
| TURKEY | 0.27 | | | | |
| U ARAB EMTS | | | | 0.05 | |
| U K | | | 0.03 | | |
| U S A | | | 0.01 | | |
| UNSPECIFIED | 0.03 | | 0.03 | 84.98 | |
| VIETNAM SOC REP | | | 0.01 | | |

| Fittings for doors and windows: Suitable for buildings (HS Code 83024110) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| CHINA P RP | 3959.78 | 3824.56 | 4762.1 | 5618.9 | 6867.98 |
| TURKEY | 104.86 | 180.82 | 253.26 | 472.93 | 545.31 |
| HONG KONG | 1.52 | 46.51 | 32.34 | 113.93 | 111.03 |
| ITALY | 94.42 | 111.48 | 124.79 | 115.7 | 89.91 |
| TAIWAN | 312.25 | 263.73 | 368.16 | 136.8 | 88.11 |
| NETHERLAND | 1.43 | 5.54 | 27.19 | 32.83 | 49.31 |
| GERMANY | 98.58 | 142.62 | 103.08 | 76.52 | 48.97 |
| PORTUGAL | 32.18 | 14.65 | 77.2 | 47.31 | 37.78 |
| MALAYSIA | 6.45 | 6.51 | 21.29 | 21.28 | 25.05 |
| U K | 41.6 | 18.44 | 22.57 | 15.74 | 20.36 |
| FRANCE | 36.32 | 5.68 | 10.78 | 22.99 | 10.05 |
| GREECE | 4.82 | 1.35 | 6.54 | 8.69 | 9.86 |
| SPAIN | 4.34 | 4.23 | 3.89 | 5.22 | 7.29 |
| U S A | 4.37 | 8.99 | 6.21 | 9.02 | 6.94 |
| U ARAB EMTS | 4.45 | 3.84 | 13.27 | 22.08 | 6.7 |

| Fittings for doors and windows: Suitable for buildings (HS Code 83024110) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Country | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| THAILAND | 0.51 | 1.25 | 4.82 | 4.41 | 4.58 |
| AUSTRALIA | 2.67 | 2.45 | 4.2 | 4.61 | 3.68 |
| SINGAPORE | 31.71 | 35.48 | 9.19 | 16.08 | 3.26 |
| FINLAND | 0.22 | 0.43 | 0.76 | 2.98 | 2.85 |
| KOREA RP | 84.68 | 3.67 | 9.64 | 1.68 | 2.01 |
| AUSTRIA | 0.69 | 1.14 | 5.39 | 1.27 | 1.69 |
| SLOVAK REP | | | 0.43 | | 1.17 |
| BELGIUM | 21.98 | 7.2 | 0.75 | 0.23 | 1.13 |
| SOUTH AFRICA | 0.11 | 0.4 | 0.38 | 0.3 | 0.95 |
| HUNGARY | 0.02 | | 2.94 | 4.05 | 0.91 |
| SWITZERLAND | 0.36 | 0.86 | 0.07 | 1.34 | 0.8 |
| OMAN | | | 16.88 | 1.4 | 0.77 |
| SLOVENIA | | | | 0.04 | 0.37 |
| CZECH REPUBLIC | 0.01 | 0.52 | 0.21 | 9 | 0.29 |
| BAHARAIN IS | | | | 0.15 | 0.17 |
| JAPAN | 0.32 | 1.59 | 0.2 | 0.14 | 0.14 |
| IRELAND | | | | 2.21 | 0.06 |
| NEPAL | | | 0.5 | | 0.06 |
| CANADA | 0.25 | 0.1 | 0 | | 0.05 |
| KUWAIT | | | | | 0.03 |
| DENMARK | 0.16 | 1.12 | 0.83 | 0 | 0.02 |
| BRAZIL | | | | | 0.01 |
| MALTA | | | | | 0.01 |
| SRI LANKA DSR | | 3.57 | 0.41 | 1.63 | 0.01 |
| INDONESIA | 0.04 | 0.04 | 0.02 | 0.02 | 0 |
| POLAND | | | 0.46 | | 0 |
| BULGARIA | | | | 0.01 | |
| CHILE | 0.03 | | | | |
| ESTONIA | | 0.02 | | | |
| GUADELOUPE | | | | 0 | |
| ISRAEL | 0.01 | 0 | 0 | | |
| LITHUANIA | | 0.65 | | | |
| NIGERIA | | | | 0.01 | |
| RUSSIA | | | 30 | | |
| SWEDEN | 0.1 | 0.34 | 0.25 | | |
| TANZANIA REP | | | | 0.21 | |
| UNSPECIFIED | | | 1.18 | 0.12 | |
| VIETNAM SOC REP | | | 0.7 | 2.99 | |

ANNEXURE-2

Quantity break-up of exports w.r.t. each country of origin for the last five completed years

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| U K | 3672.15 | 2,515.87 | 3,094.19 | 2,056.49 | 1,991.89 |
| SAUDI ARAB | 3201.77 | 3,259.15 | 1,976.48 | 1,925.95 | 2,188.63 |
| BRAZIL | 41.56 | 104.47 | 546.04 | 549.52 | 620.79 |
| GERMANY | 521.57 | 454.60 | 496.79 | 1,070.62 | 1,098.39 |
| U S A | 449.08 | 423.95 | 729.19 | 727.9 | 720.06 |
| U ARAB EMTS | 789.27 | 630.28 | 907.20 | 809.87 | 334.84 |
| AFGHANISTAN TIS | 22.7 | 185.73 | 294.59 | 403.54 | 410.38 |
| NETHERLAND | 140.9 | 215.63 | 140.68 | 395.75 | 331.98 |
| NEPAL | 27.22 | 62.03 | 239.20 | 427.38 | 285.17 |
| SPAIN | 3.33 | 29.36 | 54.13 | 116.79 | 155.42 |
| TURKEY | 19 | 224.13 | | 31.09 | 73.95 |
| KENYA | 292.56 | 286.22 | 431.60 | 277.12 | 312.14 |
| IRAQ | 124.1 | 116.64 | 211.82 | 189.97 | 202.22 |
| SUDAN | 53.98 | 161.82 | 212.88 | 251.8 | 193.44 |
| MEXICO | 1.05 | 455.27 | 131.22 | 118.31 | 50.13 |
| BURKINA FASO | 122.09 | 224.45 | 174.92 | 115.33 | 136.36 |
| JAPAN | 0.08 | 44.50 | 22.08 | 38.92 | 47.39 |
| ROMANIA | | | 15.88 | 9.21 | 29.54 |
| BELGIUM | 57.15 | 73.61 | 57.37 | 96.24 | 139.74 |
| UGANDA | 39.92 | 36.87 | 60.29 | 50.87 | 118.16 |
| EGYPT A RP | 21.94 | 28.48 | 34.13 | 111.24 | 33.91 |
| CHILE | 166.72 | 105.96 | 166.85 | 232.12 | 99.68 |
| MOROCCO | 91.14 | 208.76 | 58.22 | 52.76 | 114.38 |
| QATAR | 119.23 | 164.06 | 108.19 | 128.02 | 111.56 |
| THAILAND | 0.22 | 35.13 | 25.49 | 21.09 | 24.71 |
| ITALY | 20.86 | 49.47 | 39.60 | 65.96 | 36.1 |
| OMAN | 53.49 | 43.60 | 15.19 | 13.29 | 61.35 |
| CANADA | 15.01 | 18.49 | 46.32 | 28.54 | 38.51 |
| BHUTAN | | | 7.18 | 16.04 | 29.72 |
| LIBYA | 109.35 | 9.65 | | 25.65 | 74.51 |
| PHILIPPINES | 0.1 | 11.95 | 10.19 | 6.92 | 20.9 |
| NEW ZEALAND | | 16.55 | 8.30 | 6.23 | 22.07 |
| KUWAIT | 71.77 | 76.24 | 44.99 | 98.13 | 34.71 |
| IRELAND | 48.01 | 29.90 | 43.51 | 41.62 | 42.16 |
| FRANCE | 29.19 | 20.32 | 35.67 | 7.3 | 24.11 |
| COLOMBIA | 11.01 | | 2.98 | 5.4 | 9.65 |

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| MOZAMBIQUE | 0.01 | 1.45 | 25.70 | 26.51 | 14.01 |
| JORDAN | 6.98 | 31.13 | 31.63 | 14.12 | 38.52 |
| MALAYSIA | | 1.79 | 1.41 | 10.39 | 13.11 |
| BAHARAIN IS | 9.77 | 16.61 | 12.06 | 47.97 | 19.59 |
| SWITZERLAND | | | | | 13.58 |
| YEMEN REPubLC | 27.04 | 20.25 | 30.13 | | 34.24 |
| INDONESIA | 0.06 | 0.01 | 0.24 | 0.83 | 4.01 |
| CZECH REPUBLIC | 1.62 | 1.79 | 0.00 | | 0.36 |
| BANGLADESH PR | 58.15 | 28.98 | 30.76 | 14.36 | 25.9 |
| SEYCHELLES | 7.63 | 9.26 | 9.61 | 3.14 | 6.05 |
| SOUTH AFRICA | 2.76 | 8.06 | 3.20 | 8.75 | 7.71 |
| SRI LANKA DSR | 5.55 | 10.64 | 10.01 | 18.02 | 22.07 |
| MAURITIUS | 1.64 | 11.31 | 9.29 | 5.02 | 6.85 |
| POLAND | | 1.46 | 27.38 | 24.65 | 9.33 |
| MYANMAR | 16.54 | 10.15 | 2.10 | 3.29 | 6.3 |
| HONG KONG | 0.18 | 0.07 | 0.03 | 0.01 | 5.46 |
| SLOVAK REP | 2.47 | 0.50 | | 1.06 | 4.95 |
| AUSTRALIA | 3.3 | 10.48 | 1.87 | 6.15 | 2.64 |
| CONGO D. REP. | 0 | | 1.26 | 2.5 | 3.84 |
| LEBANON | 24.95 | 103.79 | 161.45 | 144.5 | 14.47 |
| BELARUS | 0.08 | | | | 1.83 |
| MALI | | | 11.70 | 0.3 | 9.77 |
| TANZANIA REP | 57.11 | 100.94 | 48.63 | 10.83 | 4.17 |
| GHANA | 59.55 | 63.45 | 21.20 | | 6.22 |
| VIETNAM SOC REP | 0.13 | 3.33 | 0.48 | 1.32 | 0.91 |
| LATVIA | 2.6 | 6.59 | 5.71 | 3 | 4.15 |
| NIGERIA | 0 | 6.91 | 1.91 | 0.3 | 7.71 |
| CYPRUS | 0.85 | 2.03 | 7.40 | 1.75 | 2.01 |
| MALDIVES | 0.2 | 0.12 | 1.45 | 0.57 | 0.77 |
| TAIWAN | 0.34 | 9.72 | 1.03 | 1.62 | 2.28 |
| ZAMBIA | 7 | 2.20 | 9.73 | 4.57 | 0.64 |
| GREECE | | | | 0.11 | 0.47 |
| MALAWI | 7.52 | 2.36 | 0.37 | 0.25 | 4.34 |
| SWEDEN | 0.09 | 2.13 | 15.40 | 0.71 | 0.81 |
| BARBADOS | | 0.01 | 0.01 | 0.15 | 1 |
| CAMEROON | | | | | 0.39 |
| NIGER | | | | 10 | 1.3 |
| ISRAEL | 0.8 | | | 0 | 2.68 |
| RWANDA | | | 0.30 | 2.2 | 1.8 |
| ALGERIA | | | | 0.55 | 0.6 |
| SIERRA LEONE | 1.16 | | | | 0.6 |
| SINGAPORE | 0.92 | 0.53 | 2.81 | 5.64 | 0.09 |

| Hinges of Steel (HS Code 83021010) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| SOMALIA | | 20.00 | | | 0.2 |
| GUINEA | | 4.50 | | | 0.2 |
| ETHIOPIA | | 3.00 | 0.10 | 0.35 | 0.15 |
| ECUADOR | | | | 0.41 | 0.07 |
| PERU | | 0.00 | | 0.01 | 0.05 |
| PAPUA N GNA | | | | | 0.04 |
| HUNGARY | | | | | 0.03 |
| HONDURAS | | 0.03 | 0.01 | 0.01 | 0.02 |
| PANAMA REPUBLIC | 10.66 | | 0.05 | 0.3 | 0.01 |
| DOMINIC REP | 0.01 | | 0.01 | 27.03 | 0.02 |
| CONGO P REP | | | | | 0.01 |
| ARUBA | 0.02 | 0.00 | 0.00 | 0.02 | 0.01 |
| CHINA P RP | 0.13 | 112.64 | 12.80 | 0.14 | 0.01 |
| PORTUGAL | 0.08 | | | | 0 |
| KOREA RP | 0.3 | 0.07 | 0.01 | | 0.01 |
| GUATEMALA | 0.07 | 1.38 | | | 0 |
| GABON | | | | 1 | |
| COSTA RICA | 0.03 | 7.71 | 10.86 | 7.4 | |
| FINLAND | 0.26 | 1.00 | 5.39 | 0.32 | |
| CAMBODIA | | 0.08 | 0.08 | | |
| BRUNEI | | | | 10 | |
| BOTSWANA | 0.1 | | | 0.42 | |
| LIBERIA | 0.54 | 0.30 | | 0.35 | |
| MADAGASCAR | | | | 0.01 | |
| NETHERLANDANTIL | | 0.01 | | 0 | |
| RUSSIA | | | | 0.07 | |
| UKRAINE | | | | 0.02 | |
| TOGO | | | | 0.04 | |

Quantity break-up of exports w.r.t. each country of origin for the last five completed years

| Hinges of Brass (HS Code 83021020) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| SRI LANKA DSR | 119.28 | 202.66 | 344.49 | 276.14 | 393.76 |
| U K | 393.95 | 162.28 | 126.32 | 151.24 | 187.2 |
| U S A | 204.03 | 194.11 | 218.77 | 216.42 | 208.44 |
| FRANCE | 35.9 | 32.98 | 33.64 | 33.84 | 18.11 |
| GERMANY | 16.55 | 10.79 | 8.56 | 16.01 | 21.43 |

| Hinges of Brass (HS Code 83021020) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| AUSTRALIA | 56.16 | 35.89 | 39.67 | 23.99 | 19.42 |
| ALGERIA | | | | | 17.38 |
| SPAIN | 19.33 | 17.17 | 8.07 | 9.82 | 10.25 |
| QATAR | 11.52 | 17.36 | 11.12 | 11.45 | 6.28 |
| MOZAMBIQUE | 14.5 | | 26.53 | 8.01 | 7.32 |
| NEW ZEALAND | 13.16 | 11.86 | 3.41 | 4.2 | 4.8 |
| POLAND | 3.13 | 2.34 | 0.90 | 1.04 | 8.16 |
| U ARAB EMTS | 83.06 | 41.21 | 70.89 | 21.84 | 31.8 |
| CANADA | 21.73 | 19.16 | 21.45 | 13.65 | 10.3 |
| SAUDI ARAB | 12.78 | 2.41 | 2.36 | 31.77 | 29.2 |
| ITALY | 3 | 0.83 | 3.84 | 6.89 | 2.21 |
| BELGIUM | 0.88 | 0.00 | 0.23 | 3.38 | 2.3 |
| BAHARAIN IS | 22.91 | 15.38 | 10.65 | 4.51 | 2.66 |
| OMAN | 0.85 | 0.50 | 4.34 | 2.44 | 3.11 |
| CHINA P RP | 1.61 | 3.11 | 5.04 | 1.25 | 2.1 |
| LATVIA | | | | | 2 |
| SINGAPORE | 6.72 | 6.51 | 1.02 | 1.72 | 2.68 |
| VIETNAM SOC REP | | 1.03 | 3.08 | | 1.2 |
| MYANMAR | 24.49 | 67.40 | 19.35 | 1.85 | 2.09 |
| NETHERLAND | 7.33 | 8.24 | 12.98 | 1.4 | 1.58 |
| TANZANIA REP | 0.1 | | 0.30 | 0.91 | 2.83 |
| NEPAL | 3.39 | 3.82 | 1.64 | 5.01 | 2.26 |
| SOUTH AFRICA | 14.18 | 0.70 | 5.63 | 3.5 | 0.84 |
| DENMARK | 5.34 | 1.88 | 0.46 | 0.38 | 0.39 |
| AUSTRIA | 1.16 | 1.09 | 0.25 | 0.74 | 1.04 |
| KENYA | 14.9 | 9.02 | 3.24 | 1.01 | 1.02 |
| THAILAND | 0.01 | 0.22 | 1.09 | | 1.33 |
| SWEDEN | 24.12 | 9.75 | 10.72 | 0.86 | 0.44 |
| RUSSIA | 15.11 | 0.46 | 18.20 | 0.5 | 0.46 |
| BANGLADESH PR | 0.8 | | 0.03 | 4.98 | 6.49 |
| KUWAIT | 29.93 | 7.84 | 12.18 | 12.26 | 1.86 |
| MALAYSIA | 0.68 | 0.04 | 1.47 | 0 | 0.53 |
| ISRAEL | 3.52 | | 3.86 | 0.25 | 0.27 |
| NIGERIA | | | 1.64 | 0.15 | 0.8 |
| BHUTAN | | | 0.14 | 1.22 | 0.86 |
| ROMANIA | | | | | 0.3 |
| FIJI IS | 0.06 | | 1.24 | | 1.63 |
| CHILE | | | 0.94 | | 0.28 |
| NORWAY | 1.32 | 1.60 | 1.09 | 0.04 | 0.09 |
| PORTUGAL | | | 1.00 | | 0.26 |
| MALDIVES | 0.99 | 3.09 | 0.87 | 0.44 | 0.05 |

| Hinges of Brass (HS Code 83021020) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| FINLAND | 2.97 | 0.00 | 0.02 | | 0.07 |
| ARGENTINA | | | 4.55 | 2 | 0.42 |
| SLOVENIA | | 0.88 | 0.15 | 0.3 | 0.12 |
| UGANDA | 2.02 | 0.70 | 0.16 | 0.26 | 0.1 |
| BRAZIL | | | 0.03 | | 0.12 |
| MALTA | | | 0.00 | 0.03 | 0.01 |
| COLOMBIA | | | | | 0.08 |
| MONGOLIA | | | | | 0.03 |
| CONGO P REP | | | | | 0.1 |
| INDONESIA | | | | | 0.04 |
| MAURITIUS | 0.48 | 0.84 | 1.97 | 0.01 | 0.03 |
| MALAWI | | | | | 0.03 |
| CAMBODIA | 0.04 | | | | 0.04 |
| GREECE | | | | | 0.03 |
| MEXICO | 13.25 | 18.20 | 10.87 | 3.8 | 0.01 |
| GHANA | 0.2 | 1.60 | 0.02 | | 0.01 |
| HONG KONG | | | | | 0 |
| SERBIA | | | | | 0 |
| SEYCHELLES | 2.24 | 0.54 | | 0.02 | |
| PHILIPPINES | 0.17 | 0.07 | | 0.01 | |
| REUNION | | | 0.01 | 0.04 | |
| MALI | | | | 0.35 | |
| MOROCCO | | | | 0 | |
| NICARAGUA | 0.36 | 0.39 | | 0.46 | |
| GUINEA | | | | 0.1 | |
| GAMBIA | | | | 0 | |
| JAPAN | 4.5 | 4.17 | 2.45 | 1.74 | |
| JORDAN | | 0.00 | 0.10 | 0.02 | |
| KOREA RP | | | 0.40 | 0.31 | |
| LIBYA | | 0.45 | | 0.94 | |
| LITHUANIA | 0.39 | | | 5.48 | |
| TAIWAN | 0.01 | 0.06 | | 0.01 | |
| BARBADOS | | | 0.65 | 0.05 | |
| ZAMBIA | | | 0.12 | 0.73 | |
| ZIMBABWE | | | | 0.07 | |
| VENEZUELA | | | | 0.05 | |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| U S A | 1215.77 | 1643.72 | 2735.54 | 2010.25 | 1265.4 |
| NEPAL | 76.11 | 108.78 | 295.35 | 877.72 | 808.86 |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| BANGLADESH PR | 210.21 | 151.76 | 381.55 | 820.86 | 498.26 |
| U ARAB EMTS | 127 | 129.96 | 95.56 | 259.81 | 158.9 |
| GERMANY | 46.42 | 27.12 | 350.13 | 201.15 | 343.94 |
| SAUDI ARAB | 338.05 | 284.34 | 284.88 | 338.13 | 479.8 |
| U K | 436.74 | 297.71 | 248.23 | 132.24 | 153.71 |
| BRAZIL | 94.87 | 83.23 | 58.17 | 82.91 | 79.74 |
| SOUTH AFRICA | 113.25 | 84.05 | 100.31 | 88.76 | 183.36 |
| KENYA | 81.62 | 85.96 | 45.28 | 29.3 | 42.31 |
| MEXICO | 0.63 | 0.1 | 4.71 | 33.84 | 55.95 |
| SRI LANKA DSR | 18.31 | 42.41 | 63.49 | 61.22 | 87.03 |
| MALDIVES | 5.88 | 3.12 | 6.66 | 1.63 | 12.31 |
| MYANMAR | 100.93 | 106.14 | 36.65 | 32.88 | 29.39 |
| AUSTRALIA | 8.71 | 12.38 | 21.63 | 16.78 | 24.5 |
| CANADA | 13.53 | 4.83 | 10.35 | 5.02 | 22.26 |
| SWEDEN | 63.31 | 22.11 | 30.53 | 40.22 | 25.98 |
| SUDAN | 27.54 | 1.2 | 22.52 | 71.65 | 70 |
| JAPAN | 46.6 | 40.81 | 35.44 | 34.74 | 21.95 |
| ITALY | 1.3 | 6.02 | 12.53 | 5 | 9.49 |
| EGYPT A RP | 4.52 | 9.9 | 2.01 | 8.03 | 15.85 |
| BURKINA FASO | 24.55 | 142.75 | 48.04 | 46.64 | 52.6 |
| FRANCE | 8.7 | 9.14 | 9.55 | 9.48 | 9.42 |
| TURKEY | 54.87 | 156.91 | 393.1 | 118.2 | 21.91 |
| CHILE | 19.1 | 20.81 | 22.28 | 4.15 | 29.9 |
| OMAN | 30.64 | 19.38 | 9.44 | 3.46 | 9.68 |
| BHUTAN | 56.94 | | 10.89 | 15.85 | 10.63 |
| KOREA RP | 5.48 | 3.27 | 4.06 | 2.03 | 9.03 |
| PHILIPPINES | 0.03 | 2.54 | 1.95 | 2.93 | 11.26 |
| YEMEN REPubLC | 0.75 | 2.74 | 1.4 | 3.2 | 15.85 |
| QATAR | 19.87 | 13.21 | 22.42 | 19.95 | 5.5 |
| TANZANIA REP | 25.87 | 10.89 | 1.75 | 31.43 | 16.53 |
| NETHERLAND | 128.46 | 64.81 | 299.53 | 54.33 | 8.3 |
| KUWAIT | 31.9 | 111.69 | 50.33 | 19.68 | 14.79 |
| NIGERIA | 24.2 | 28.17 | 5.21 | 9.41 | 8.9 |
| THAILAND | 4.74 | 5.3 | 5.22 | 14.14 | 8.45 |
| SINGAPORE | 11.73 | 3.97 | 3.41 | 5.24 | 3.16 |
| LEBANON | 1.06 | 11.42 | 0.82 | 14.11 | 20.31 |
| VIETNAM SOC REP | 0.08 | 1.21 | 2.19 | 1.46 | 6.51 |
| MAURITIUS | 5.68 | 26.94 | 27.63 | 30.6 | 4.24 |
| ISRAEL | 12.81 | 28.91 | 13.06 | 4.45 | 6.72 |
| DOMINIC REP | | 17.7 | | 70.35 | 6.02 |
| BAHARAIN IS | 2.51 | 3.65 | 2.5 | 1.19 | 2.48 |
| SEYCHELLES | 0.84 | 2.01 | 2.49 | 2.07 | 3.7 |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| FIJI IS | 2.88 | 7.68 | 5.01 | 1.4 | 4.02 |
| ZAMBIA | 9.06 | 4.33 | 0.62 | 4.16 | 3.21 |
| IRELAND | 17.85 | 9.01 | 11.83 | 0.37 | 3.8 |
| UGANDA | 36.21 | 3.13 | 5.96 | 21.05 | 3.35 |
| LITHUANIA | 0.6 | 6 | 0.05 | 15.17 | 5.1 |
| ESTONIA | | 1.6 | 10 | 3 | 2.2 |
| NEW ZEALAND | 0.07 | 3.37 | 6.9 | 2.57 | 1.31 |
| BELGIUM | 13.86 | 3.79 | 27.74 | 2.68 | 0.5 |
| GHANA | 0.9 | 0.1 | 0.04 | 3.03 | 2.46 |
| ALGERIA | 0.13 | 0.3 | 0.56 | 0.52 | 1.87 |
| GREECE | 0.1 | 0.26 | 0.17 | 0.06 | 0.77 |
| INDONESIA | 2.15 | 1.12 | 0.84 | 3.49 | 0.89 |
| CONGO D. REP. | 0.06 | | 0.1 | 3.59 | 2.13 |
| MALTA | 0.62 | 0 | 0.03 | 0 | 1.01 |
| ZIMBABWE | | 5 | 0.24 | 16.59 | 0.63 |
| ROMANIA | | | 0.02 | 0.1 | 0.6 |
| RUSSIA | 43.74 | 17.23 | 42.24 | 21.03 | 1.92 |
| POLAND | 31.62 | 4.95 | 8.83 | 1.32 | 1.45 |
| MALAYSIA | 12.03 | 11.9 | 0.89 | 0.86 | 0.56 |
| HONG KONG | 0.43 | 1.95 | 0.04 | 0.22 | 0.11 |
| SPAIN | 23.16 | 42.11 | 50.5 | 24.44 | 1.38 |
| CROATIA | | 0.01 | 0.05 | 0.11 | 0.14 |
| DENMARK | 1.51 | 0.9 | 0.39 | 3.36 | 0.31 |
| MALI | 0 | | | | 2.19 |
| SERBIA | | 0.4 | | 0.17 | 0.09 |
| LATVIA | | | | | 0.51 |
| AUSTRIA | 2.44 | 2.76 | 0.34 | 0.02 | 0.18 |
| SENEGAL | 0 | 0.73 | 0.47 | 0.86 | 0.51 |
| MOROCCO | 4.59 | 29.04 | 18.57 | 0.28 | 0.04 |
| MALAWI | 5.46 | 1.42 | 0.26 | 3.49 | 0.38 |
| JORDAN | 8.43 | 0.01 | 0.08 | 0.3 | 0.6 |
| FINLAND | 0.54 | 0.06 | 1.9 | 0.01 | 0 |
| ETHIOPIA | 0.22 | 0.16 | 0.36 | 1.51 | 0.15 |
| MOZAMBIQUE | 4.01 | 0.01 | 0.01 | 28.04 | 0.25 |
| REUNION | | 0.03 | | 0.1 | 0.2 |
| SWITZERLAND | 0.08 | 0.48 | 0.06 | | 0.03 |
| PUERTO RICO | | | | | 1.18 |
| BURUNDI | 0.02 | | | | 0.1 |
| MAURITANIA | | | | | 0.1 |
| RWANDA | 0.01 | 0.3 | 0.08 | 0.03 | 0.26 |
| BULGARIA | | | | 0.12 | 0.07 |
| HUNGARY | 0.01 | 0.09 | 0.01 | 0.02 | 0.04 |

| Hinges of Other base metal including aluminium (HS Code 83021090) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| CHINA P RP | 118.11 | 3.18 | 2.4 | 0.15 | 0.07 |
| PAKISTAN IR | 6 | | | | 0.17 |
| NORWAY | 2.76 | 0.33 | 0.09 | 0.17 | 0 |
| TUNISIA | | | 0.01 | | 0.06 |
| URUGUAY | 0.01 | | | 1 | 0.04 |
| ANGOLA | 0.02 | | | | 0.03 |
| PAPUA N GNA | 0.1 | | | 0.04 | 0.01 |
| SLOVENIA | | 1.9 | | | 0.01 |
| PERU | | 0.01 | | 0.02 | 0.03 |
| SURINAME | | | | | 0.03 |
| GUINEA | | | | 0.01 | 0.01 |
| IRAN | 0.14 | 0 | 0.3 | 0.31 | 0.01 |
| PORTUGAL | 6.54 | 13.18 | 4.13 | 0.06 | 0.01 |
| SLOVAK REP | 0.2 | 0.09 | 0.55 | | 0.01 |
| BOLIVIA | | 0.38 | | | 0.01 |
| UKRAINE | | | 0.1 | 0.42 | 0 |
| SIERRA LEONE | 0.2 | 0.32 | 0.56 | 3.4 | 0 |
| CONGO P REP | 0.16 | 0.02 | 0 | 0.49 | |
| PARAGUAY | | | | 0.03 | 0 |
| BARBADOS | | | | | |
| EL SALVADOR | | | | | |
| ECUADOR | | 0.01 | | 0 | |
| CYPRUS | 0.05 | | | 0.04 | |
| COLOMBIA | 0.35 | 0.06 | 1 | 0.15 | |
| TAIWAN | 0.14 | 0 | | 0.56 | |
| AFGHANISTAN TIS | 0.1 | 14.06 | 0.04 | 0.02 | |
| ARMENIA | | | | 0.02 | |
| BOTSWANA | 0 | | | 0.81 | |
| CHAD | | | 0.1 | 0.12 | |
| COTE D' IVOIRE | | 0 | | 0.21 | |
| GABON | | | | 1.11 | |
| GAMBIA | | 0.44 | 0.8 | 0.03 | |
| MADAGASCAR | | | | 0.08 | |
| LIBERIA | | | | 0.5 | |
| SYRIA | | 0.17 | 0.5 | 0.95 | |
| UZBEKISTAN | | | 0.02 | 0.01 | |

| Staples other than in strips & drawing pin (HS Code 73170091) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| NIGERIA | 28.5 | | | 0 | 0.2 |

| Staples other than in strips & drawing pin (HS Code 73170091) (Quantity in Thousand, Unit in Kg) | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| AUSTRALIA | | | 0 | | 0.15 |
| BHUTAN | | | 0.21 | 2.4 | 0.27 |
| NEPAL | | 0.1 | 0.15 | 0.93 | 0.31 |
| BANGLADESH PR | 0.03 | | | 0.08 | 0.21 |
| ZAMBIA | | | 0.1 | | 0.12 |
| U S A | | | | | 0.03 |
| GERMANY | | 0 | | | 0.02 |
| MALDIVES | 0.19 | 0.1 | | | 0.02 |
| U ARAB EMTS | 0.1 | 3.15 | 0.27 | | |
| YEMEN REPubLC | | | | | |
| CONGO D. REP. | | | | 0.01 | |
| QATAR | 1 | | 0.32 | | |
| SRI LANKA DSR | | | | 0.02 | |
| SUDAN | 0.02 | | | 0.01 | |
| SWITZERLAND | | | | 0.2 | |
| TRINIDAD | | | | 0 | |
| AFGHANISTAN TIS | | | | 0.1 | |
| COLOMBIA | | | | | |
| CANADA | | | 1.2 | | |
| GHANA | 0.5 | | 0.3 | | |
| ETHIOPIA | 0.01 | | 0.01 | | |
| PAPUA N GNA | | | 0 | | |
| U K | | | | | |
| CHINA P RP | | | | | |
| JAPAN | 0 | 0.02 | | | |
| SAUDI ARAB | 0.14 | 0.1 | | | |
| SEYCHELLES | | 0.1 | | | |
| TANZANIA REP | | | | | |
| ESTONIA | | | | | |
| TAIWAN | | 0.01 | | | |
| MALAYSIA | 0.03 | | | | |
| SURINAME | 0.02 | | | | |
| CONGO P REP | 0.02 | | | | |
| SINGAPORE | 0.01 | | | | |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| INDONESIA | 19.04 | 24.97 | 574.07 | 891.03 | 653.64 |
| U S A | 127.23 | 147.41 | 138.84 | 151.18 | 127.87 |
| BANGLADESH PR | 300.59 | 340.85 | 399.85 | 411.17 | 316.4 |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| U ARAB EMTS | 224.74 | 147.43 | 165.97 | 291.52 | 481.07 |
| KENYA | 129.87 | 155.27 | 165.53 | 220.89 | 231.2 |
| THAILAND | 226.66 | 121.97 | 199.53 | 211.36 | 137.13 |
| EGYPT A RP | 115.33 | 66.14 | 111.92 | 238.53 | 650.46 |
| LITHUANIA | 50.66 | 85.43 | 85.16 | 90.68 | 111.74 |
| MYANMAR | 76.93 | 74.09 | 93.25 | 82.68 | 87.91 |
| NEPAL | 117.42 | 101.18 | 87.69 | 154.02 | 102.64 |
| CAMBODIA | 43.03 | 29.37 | 93.62 | 83.48 | 72.37 |
| TANZANIA REP | 0.1 | 23.93 | 42.84 | 48.45 | 67.05 |
| IRAQ | 13.56 | 62.25 | 38.49 | 65.02 | 45.54 |
| QATAR | 43.31 | 23.1 | 33.52 | 42.56 | 68.76 |
| ALGERIA | 35.58 | 42.7 | 55.81 | 74.95 | 91.51 |
| ISRAEL | 38.01 | 43.88 | 43.94 | 48.01 | 73.45 |
| SAUDI ARAB | 13.89 | 18.15 | 21.39 | 29.36 | 42.27 |
| SRI LANKA DSR | 70.16 | 47.28 | 55.88 | 66.27 | 48.92 |
| CHINA P RP | 0.53 | 1.04 | 0.66 | 2.74 | 5.49 |
| RUSSIA | 12.48 | 12.03 | 13.48 | 52.18 | 38.47 |
| NIGERIA | 16 | 3.2 | 18.73 | 26.5 | 40.51 |
| GERMANY | 4.73 | 13.41 | 12.82 | 5.71 | 53.53 |
| ETHIOPIA | 36.75 | 6.49 | 33.2 | 22.09 | 32.22 |
| JAPAN | 8.03 | 9.67 | 0.13 | 12.21 | 23.96 |
| LIBYA | | | | 21.47 | 28.52 |
| SOUTH AFRICA | 30.02 | 22.89 | 40.47 | 48.68 | 27.32 |
| PAKISTAN IR | 47.13 | 45.9 | 70.56 | 155.64 | 27.64 |
| ARGENTINA | 7.97 | 13.13 | 2.74 | 6.88 | 22.59 |
| SWEDEN | 19.81 | 12.58 | 16.27 | 17.33 | 18.76 |
| HONG KONG | 2.36 | | | 5.35 | 12.85 |
| SUDAN | 2.3 | 23.7 | 15.63 | 0.27 | 36.01 |
| BAHARAIN IS | 7.5 | 15.58 | 15.39 | 12.72 | 16.07 |
| OMAN | 4.9 | 8 | 2.61 | 17.74 | 28.6 |
| JORDAN | 7.65 | 7.57 | 20.33 | 19.04 | 21.98 |
| TURKEY | 12.41 | 13.27 | 13.2 | 11.59 | 19.62 |
| MOROCCO | 3.15 | 6.28 | 10.37 | 14.4 | 47.08 |
| VIETNAM SOC REP | 48.89 | 6.61 | 4.38 | 44.42 | 18.56 |
| KAZAKHSTAN | | | 6 | 17.09 | 13.26 |
| MALAYSIA | 545.51 | 716.27 | 218.23 | 22.07 | 15.02 |
| BELARUS | | | 4.21 | 12.04 | 8.74 |
| FINLAND | 79.38 | 17.61 | 36.85 | 14.94 | 12.15 |
| YEMEN REPubLC | 6.05 | 32.14 | 16.59 | 41.5 | 10.44 |
| SPAIN | 12.36 | 6.79 | 10.4 | 2.23 | 8.37 |
| SYRIA | 0.62 | | 4.71 | 18.64 | 22.6 |
| ROMANIA | 7.61 | 4.08 | 10.03 | 8.91 | 11.6 |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| ITALY | 5.48 | 8.21 | 7.05 | 14.21 | 8.27 |
| POLAND | 33.4 | 8.21 | 5.05 | 2.89 | 7.49 |
| TUNISIA | | 4.05 | 12.81 | 13.52 | 4 |
| UKRAINE | 2.6 | | | | 8.72 |
| SOMALIA | | 7.16 | | | 7.08 |
| TAIWAN | 18.96 | 31.62 | 2.14 | 16.12 | 2.28 |
| LEBANON | 9.36 | 5.11 | 8.33 | 7.1 | 7.89 |
| UGANDA | 24.86 | 11.73 | 43.82 | 29.7 | 9.03 |
| KUWAIT | 23.73 | 23.33 | 12.77 | 19.86 | 4.76 |
| BENIN | 4.87 | 4.02 | 2.67 | 2.84 | 5.54 |
| BHUTAN | | | 2.08 | 3.9 | 13.77 |
| SINGAPORE | 2.75 | 13.01 | 3.01 | 2.55 | 2.01 |
| ESTONIA | 6.2 | 2.96 | | 4.65 | 3.71 |
| COTE D' IVOIRE | 7.12 | 3.45 | 7.93 | 8.77 | 4.53 |
| BOLIVIA | 2.88 | 1.95 | | 0.64 | 3.63 |
| SLOVENIA | 1.71 | 1.58 | 2.35 | 2.41 | 4.24 |
| BRUNEI | 2.51 | 1.81 | 2.28 | 3.59 | 1.83 |
| SOUTH SUDAN | | | 1.1 | | 3 |
| BURKINA FASO | | 3.5 | 1.6 | | 2.1 |
| DENMARK | | | | 5.36 | 2.34 |
| PORTUGAL | 1.27 | 1.48 | 2.69 | 3.03 | 1.88 |
| STATE OF PALEST | | | | 9 | 2.2 |
| MEXICO | | 0.47 | | 0.19 | 2.4 |
| LATVIA | 25.71 | 36.45 | 18.45 | 4.65 | 2.24 |
| GREECE | 1.93 | 0.35 | 1.02 | 4.15 | 2.4 |
| MALDIVES | 0.96 | 0.87 | 0.93 | 1.85 | 1.18 |
| ANGOLA | | | | 4.95 | 1.2 |
| MAURITIUS | 1.61 | 0.24 | 1.58 | 1.04 | 1.14 |
| HONDURAS | 3.33 | 0.14 | 0.56 | 1 | 1.46 |
| PHILIPPINES | 8.07 | 6.7 | 7.43 | 3.05 | 0.95 |
| NETHERLAND | | | 0.37 | 2.22 | 1.12 |
| CONGO D. REP. | 0.27 | | | 0.81 | 1.17 |
| FIJI IS | 0.01 | 0.2 | 0.2 | | 0.72 |
| SERBIA | 0.01 | 0.1 | 0.15 | 0.68 | 0.43 |
| SWITZERLAND | 6.47 | 0.75 | 6.51 | 2.83 | 0.64 |
| ECUADOR | 0.99 | 1.12 | 0.7 | 0.19 | 0.94 |
| CHILE | 1.68 | 10.67 | 2.56 | 0.05 | 0.19 |
| AUSTRIA | | | | | 0.45 |
| U K | 1.35 | 2.03 | 1.74 | 0 | 0.34 |
| GEORGIA | 1.08 | 3 | 0.81 | 0.56 | 0.65 |
| BRAZIL | | | | | 0.22 |
| CZECH REPUBLIC | 0.51 | 1.35 | 1 | 0.3 | 0.2 |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| KOREA RP | 0.43 | 0.03 | | 0.01 | 0.47 |
| GHANA | 0.03 | 0.1 | 0.02 | 0.02 | 0.4 |
| REUNION | 1.16 | 1.23 | 2.09 | 1 | 0.57 |
| CYPRUS | | 0.16 | 0.08 | 0.27 | 0.61 |
| AUSTRALIA | | | | 0.01 | 0 |
| ALBANIA | | | | | 0.59 |
| IRELAND | 0.41 | 0.65 | 0.51 | 0.26 | 0.4 |
| COLOMBIA | 0.8 | 0.79 | 1.01 | 0.38 | 0.26 |
| EL SALVADOR | 0.7 | | 0.41 | | 0.37 |
| MALAWI | 0.32 | 0.46 | 0.35 | 3.15 | 0.12 |
| ZAMBIA | 1.77 | 0.7 | 0.01 | 1.63 | 0.1 |
| CROATIA | 0.05 | 3.11 | 0.04 | 0.08 | 0.03 |
| GAMBIA | | | | | 0.05 |
| MOZAMBIQUE | 0.69 | | 0.31 | 0.18 | 0.01 |
| TOGO | | 0.18 | 3.19 | 0 | 0 |
| TRINIDAD | 3.17 | 0.31 | | 1.72 | |
| ZIMBABWE | | 2.8 | 2 | 0.14 | |
| UNSPECIFIED | | | | 1.5 | |
| URUGUAY | 0.38 | 2.1 | 0.11 | 2.24 | |
| MONTSERAT | | | | 0.01 | |
| PERU | 0.74 | 2.24 | 2.83 | 10.57 | |
| SENEGAL | | 0.16 | 2.12 | 0.16 | |
| SEYCHELLES | | 0.5 | 0.09 | 0.01 | |
| GUINEA | | | | 0.01 | |
| GUYANA | | | | 0.37 | |
| IRAN | 77.67 | 131.82 | 229.09 | 83.67 | |
| MALI | | | | 0.4 | |
| MARSHALL ISLAND | | | | 0 | |
| MARTINIQUE | | | | 0.4 | |
| KOREA DP RP | | | | 0 | |
| DJIBOUTI | 4.6 | 0.02 | 3.5 | 0.8 | |
| FRANCE | 0.53 | | | 0.2 | |
| ARMENIA | | | | 7.9 | |
| BOSNIA-HRZGOVIN | | | | 0.2 | |
| AFGHANISTAN TIS | | 7.76 | 2.03 | | |
| NORWAY | | | 0.4 | | |
| GADELOUPE | 0.16 | | 0.32 | | |
| COSTA RICA | 3.7 | | 0.13 | | |
| FR GUIANA | | | 0.09 | | |
| PAPUA N GNA | | | 0.06 | | |
| GABON | | | 0 | | |
| PARAGUAY | 2.21 | 0.05 | | | |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| CONGO P REP | 5.94 | | | | |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| INDONESIA | 19.04 | 24.97 | 574.07 | 891.03 | 653.64 |
| U S A | 127.23 | 147.41 | 138.84 | 151.18 | 127.87 |
| BANGLADESH PR | 300.59 | 340.85 | 399.85 | 411.17 | 316.4 |
| U ARAB EMTS | 224.74 | 147.43 | 165.97 | 291.52 | 481.07 |
| KENYA | 129.87 | 155.27 | 165.53 | 220.89 | 231.2 |
| THAILAND | 226.66 | 121.97 | 199.53 | 211.36 | 137.13 |
| EGYPT A RP | 115.33 | 66.14 | 111.92 | 238.53 | 650.46 |
| LITHUANIA | 50.66 | 85.43 | 85.16 | 90.68 | 111.74 |
| MYANMAR | 76.93 | 74.09 | 93.25 | 82.68 | 87.91 |
| NEPAL | 117.42 | 101.18 | 87.69 | 154.02 | 102.64 |
| CAMBODIA | 43.03 | 29.37 | 93.62 | 83.48 | 72.37 |
| TANZANIA REP | 0.1 | 23.93 | 42.84 | 48.45 | 67.05 |
| IRAQ | 13.56 | 62.25 | 38.49 | 65.02 | 45.54 |
| QATAR | 43.31 | 23.1 | 33.52 | 42.56 | 68.76 |
| ALGERIA | 35.58 | 42.7 | 55.81 | 74.95 | 91.51 |
| ISRAEL | 38.01 | 43.88 | 43.94 | 48.01 | 73.45 |
| SAUDI ARAB | 13.89 | 18.15 | 21.39 | 29.36 | 42.27 |
| SRI LANKA DSR | 70.16 | 47.28 | 55.88 | 66.27 | 48.92 |
| CHINA P RP | 0.53 | 1.04 | 0.66 | 2.74 | 5.49 |
| RUSSIA | 12.48 | 12.03 | 13.48 | 52.18 | 38.47 |
| NIGERIA | 16 | 3.2 | 18.73 | 26.5 | 40.51 |
| GERMANY | 4.73 | 13.41 | 12.82 | 5.71 | 53.53 |
| ETHIOPIA | 36.75 | 6.49 | 33.2 | 22.09 | 32.22 |
| JAPAN | 8.03 | 9.67 | 0.13 | 12.21 | 23.96 |
| LIBYA | | | | 21.47 | 28.52 |
| SOUTH AFRICA | 30.02 | 22.89 | 40.47 | 48.68 | 27.32 |
| PAKISTAN IR | 47.13 | 45.9 | 70.56 | 155.64 | 27.64 |
| ARGENTINA | 7.97 | 13.13 | 2.74 | 6.88 | 22.59 |
| SWEDEN | 19.81 | 12.58 | 16.27 | 17.33 | 18.76 |
| HONG KONG | 2.36 | | | 5.35 | 12.85 |
| SUDAN | 2.3 | 23.7 | 15.63 | 0.27 | 36.01 |
| BAHARAIN IS | 7.5 | 15.58 | 15.39 | 12.72 | 16.07 |
| OMAN | 4.9 | 8 | 2.61 | 17.74 | 28.6 |
| JORDAN | 7.65 | 7.57 | 20.33 | 19.04 | 21.98 |
| TURKEY | 12.41 | 13.27 | 13.2 | 11.59 | 19.62 |
| MOROCCO | 3.15 | 6.28 | 10.37 | 14.4 | 47.08 |
| VIETNAM SOC REP | 48.89 | 6.61 | 4.38 | 44.42 | 18.56 |

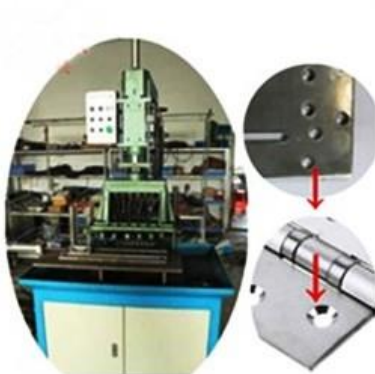
| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| KAZAKHSTAN | | | 6 | 17.09 | 13.26 |
| MALAYSIA | 545.51 | 716.27 | 218.23 | 22.07 | 15.02 |
| BELARUS | | | 4.21 | 12.04 | 8.74 |
| FINLAND | 79.38 | 17.61 | 36.85 | 14.94 | 12.15 |
| YEMEN REPubLC | 6.05 | 32.14 | 16.59 | 41.5 | 10.44 |
| SPAIN | 12.36 | 6.79 | 10.4 | 2.23 | 8.37 |
| SYRIA | 0.62 | | 4.71 | 18.64 | 22.6 |
| ROMANIA | 7.61 | 4.08 | 10.03 | 8.91 | 11.6 |
| ITALY | 5.48 | 8.21 | 7.05 | 14.21 | 8.27 |
| POLAND | 33.4 | 8.21 | 5.05 | 2.89 | 7.49 |
| TUNISIA | | 4.05 | 12.81 | 13.52 | 4 |
| UKRAINE | 2.6 | | | | 8.72 |
| SOMALIA | | 7.16 | | | 7.08 |
| TAIWAN | 18.96 | 31.62 | 2.14 | 16.12 | 2.28 |
| LEBANON | 9.36 | 5.11 | 8.33 | 7.1 | 7.89 |
| UGANDA | 24.86 | 11.73 | 43.82 | 29.7 | 9.03 |
| KUWAIT | 23.73 | 23.33 | 12.77 | 19.86 | 4.76 |
| BENIN | 4.87 | 4.02 | 2.67 | 2.84 | 5.54 |
| BHUTAN | | | 2.08 | 3.9 | 13.77 |
| SINGAPORE | 2.75 | 13.01 | 3.01 | 2.55 | 2.01 |
| ESTONIA | 6.2 | 2.96 | | 4.65 | 3.71 |
| COTE D' IVOIRE | 7.12 | 3.45 | 7.93 | 8.77 | 4.53 |
| BOLIVIA | 2.88 | 1.95 | | 0.64 | 3.63 |
| SLOVENIA | 1.71 | 1.58 | 2.35 | 2.41 | 4.24 |
| BRUNEI | 2.51 | 1.81 | 2.28 | 3.59 | 1.83 |
| SOUTH SUDAN | | | 1.1 | | 3 |
| BURKINA FASO | | 3.5 | 1.6 | | 2.1 |
| DENMARK | | | | 5.36 | 2.34 |
| PORTUGAL | 1.27 | 1.48 | 2.69 | 3.03 | 1.88 |
| STATE OF PALEST | | | | 9 | 2.2 |
| MEXICO | | 0.47 | | 0.19 | 2.4 |
| LATVIA | 25.71 | 36.45 | 18.45 | 4.65 | 2.24 |
| GREECE | 1.93 | 0.35 | 1.02 | 4.15 | 2.4 |
| MALDIVES | 0.96 | 0.87 | 0.93 | 1.85 | 1.18 |
| ANGOLA | | | | 4.95 | 1.2 |
| MAURITIUS | 1.61 | 0.24 | 1.58 | 1.04 | 1.14 |
| HONDURAS | 3.33 | 0.14 | 0.56 | 1 | 1.46 |
| PHILIPPINES | 8.07 | 6.7 | 7.43 | 3.05 | 0.95 |
| NETHERLAND | | | 0.37 | 2.22 | 1.12 |
| CONGO D. REP. | 0.27 | | | 0.81 | 1.17 |
| FIJI IS | 0.01 | 0.2 | 0.2 | | 0.72 |
| SERBIA | 0.01 | 0.1 | 0.15 | 0.68 | 0.43 |

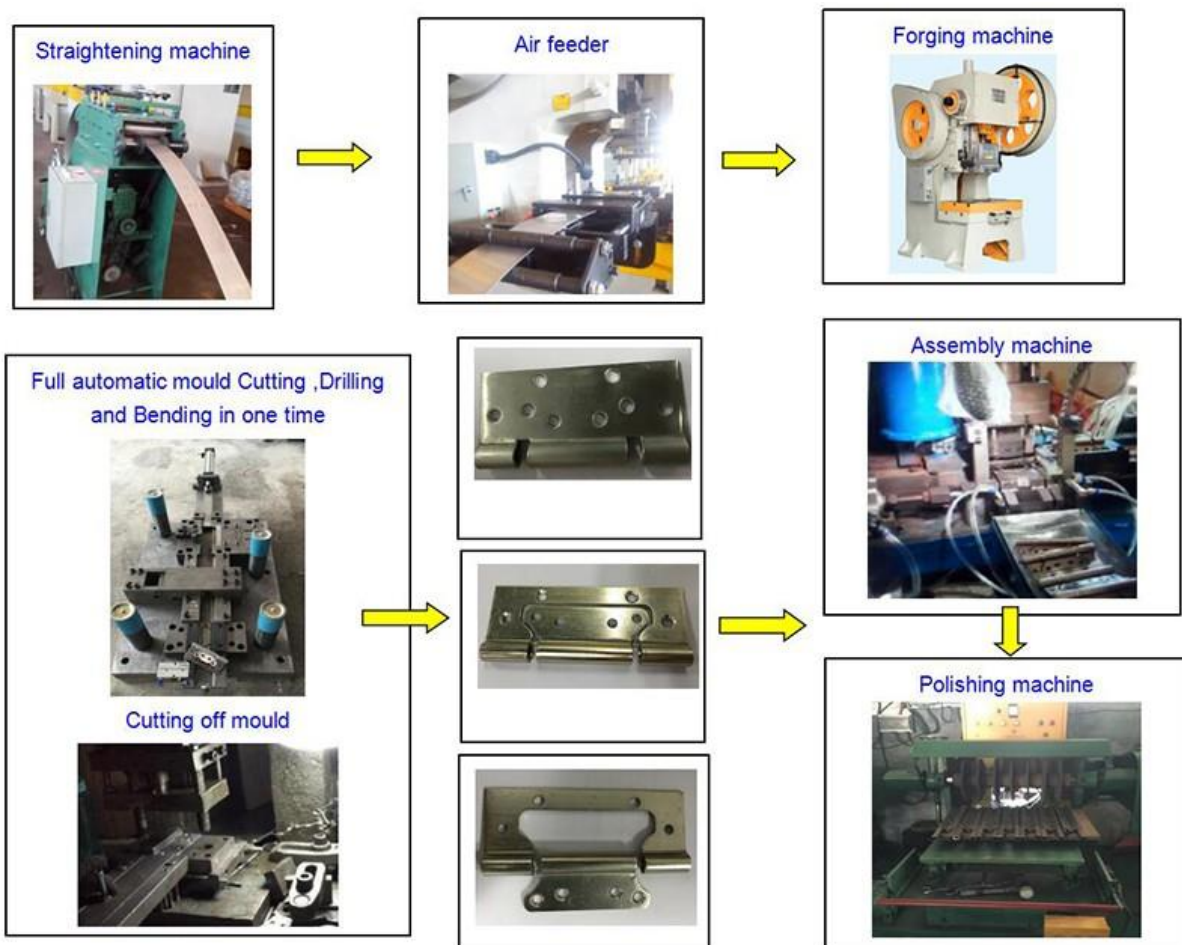
| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| SWITZERLAND | 6.47 | 0.75 | 6.51 | 2.83 | 0.64 |
| ECUADOR | 0.99 | 1.12 | 0.7 | 0.19 | 0.94 |
| CHILE | 1.68 | 10.67 | 2.56 | 0.05 | 0.19 |
| AUSTRIA | | | | | 0.45 |
| U K | 1.35 | 2.03 | 1.74 | 0 | 0.34 |
| GEORGIA | 1.08 | 3 | 0.81 | 0.56 | 0.65 |
| BRAZIL | | | | | 0.22 |
| CZECH REPUBLIC | 0.51 | 1.35 | 1 | 0.3 | 0.2 |
| KOREA RP | 0.43 | 0.03 | | 0.01 | 0.47 |
| GHANA | 0.03 | 0.1 | 0.02 | 0.02 | 0.4 |
| REUNION | 1.16 | 1.23 | 2.09 | 1 | 0.57 |
| CYPRUS | | 0.16 | 0.08 | 0.27 | 0.61 |
| AUSTRALIA | | | | 0.01 | 0 |
| ALBANIA | | | | | 0.59 |
| IRELAND | 0.41 | 0.65 | 0.51 | 0.26 | 0.4 |
| COLOMBIA | 0.8 | 0.79 | 1.01 | 0.38 | 0.26 |
| EL SALVADOR | 0.7 | | 0.41 | | 0.37 |
| MALAWI | 0.32 | 0.46 | 0.35 | 3.15 | 0.12 |
| ZAMBIA | 1.77 | 0.7 | 0.01 | 1.63 | 0.1 |
| CROATIA | 0.05 | 3.11 | 0.04 | 0.08 | 0.03 |
| GAMBIA | | | | | 0.05 |
| MOZAMBIQUE | 0.69 | | 0.31 | 0.18 | 0.01 |
| TOGO | | 0.18 | 3.19 | 0 | 0 |
| TRINIDAD | 3.17 | 0.31 | | 1.72 | |
| ZIMBABWE | | 2.8 | 2 | 0.14 | |
| UNSPECIFIED | | | | 1.5 | |
| URUGUAY | 0.38 | 2.1 | 0.11 | 2.24 | |
| MONTSERRAT | | | | 0.01 | |
| PERU | 0.74 | 2.24 | 2.83 | 10.57 | |
| SENEGAL | | 0.16 | 2.12 | 0.16 | |
| SEYCHELLES | | 0.5 | 0.09 | 0.01 | |
| GUINEA | | | | 0.01 | |
| GUYANA | | | | 0.37 | |
| IRAN | 77.67 | 131.82 | 229.09 | 83.67 | |
| MALI | | | | 0.4 | |
| MARSHALL ISLAND | | | | 0 | |
| MARTINIQUE | | | | 0.4 | |
| KOREA DP RP | | | | 0 | |
| DJIBOUTI | 4.6 | 0.02 | 3.5 | 0.8 | |
| FRANCE | 0.53 | | | 0.2 | |
| ARMENIA | | | | 7.9 | |
| BOSNIA-HRZGOVIN | | | | 0.2 | |

| Staples in strips (HS Code 83052000) (Quantity in Thousand, Unit in Kg) | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Countries | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
| AFGHANISTAN TIS | | 7.76 | 2.03 | | |
| NORWAY | | | 0.4 | | |
| GUADELOUPE | 0.16 | | 0.32 | | |
| COSTA RICA | 3.7 | | 0.13 | | |
| FR GUIANA | | | 0.09 | | |
| PAPUA N GNA | | | 0.06 | | |
| GABON | | | 0 | | |
| PARAGUAY | 2.21 | 0.05 | | | |
| CONGO P REP | 5.94 | | | | |

Machinery Photographs







Flush hinge production line processes(AUTOMATION)

1. Straightening machine
2. Automatic Air feeder
3. Forging press(Work with automatic mould and cutting mould)
4. Hinge assembly machine
5. Hinge polishing machine.