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# GUIDEBOOK ON COMPLIANCE OF MANDATORY STANDARDS FOR IRON, STEEL AND ALUMINIUM



**Lembaga Pembangunan Industri Pembinaan Malaysia**  
*Construction Industry Development Board Malaysia*

Tingkat 10, Menara Dato' Onn,  
Pusat Dagangan Dunia Putra (PWTC),  
No 45, Jalan Tun Ismail, 50480 Kuala Lumpur  
Tel : 03 - 4047 7000 Faks : 04 - 4047 7420  
Emel : [qpass@cidb.gov.my](mailto:qpass@cidb.gov.my)

Talian CIDB Careline : **1300 88 2432**

**Second Edition - 2018**

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**Second Edition – 2018**

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Any enquiries regarding the contents of this book are to be directed to:

Chief Executive  
Construction Industry Development Board  
Tingkat 34, Menara Dato' Onn  
Pusat Dagangan Dunia Putra  
No. 45, Jalan Tun Ismail  
50480 Kuala Lumpur  
Malaysia

Tel. : 603-4047 7000  
Fax. : 603-4047 7420  
Email : [qpass@cidb.gov.my](mailto:qpass@cidb.gov.my)  
Web : [www.cidb.gov.my](http://www.cidb.gov.my)

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# TABLE OF CONTENTS

Foreword

Acknowledgement

Abbreviations

- 1.0 Introduction
- 2.0 Regulatory Policy of Construction Materials
- 3.0 Conformance to Mandatory Standards
- 4.0 Appoinment of Conformity Assessment Body (CAB)
- 5.0 Sampling of Products for Testing
- 6.0 Full Type Test Report (FTTR)
- 7.0 Marking Requirements
- 8.0 Recommended Steps for New Importers
- 9.0 Enquiries
- 10.0 Contact Person

Appendix A: Flow Chart of Recommended Steps For New Importers

CIDB Implementation Control On Quality For Construction And Building Materials  
For Iron Steel Products And Aluminium Products (2018)

## A. IRON OR STEEL PRODUCTS (HS Code : 7208.36.00.00 - 7228.70.90.00)

|  |    |
|--|----|
| 1. Non Alloy Iron or Steel Strip, Plate or Sheet .....       | 1  |
| 2. Non Alloy of Iron or Steel Bar and Rod .....              | 7  |
| 3. Non Alloy of Iron or Steel Angle, Section and Shape ..... | 8  |
| 4. Non Alloy Iron or Steel Wire .....                        | 9  |
| 5. Stainless Steel Angle, Section and Shape .....            | 9  |
| 6. Alloy of Iron or Steel Plate and Sheet .....              | 10 |
| 7. Alloy of Iron or Steel Bar .....                          | 10 |
| 8. Alloy of Iron or Steel Angle, Section and Shape .....     | 11 |

**B. OTHER IRON OR STEEL PRODUCTS ( HS Code : 7302.10.00.00 - 7325.10.20.00 )**

|  |    |
|--|----|
| 1. Rail and Tramway Track of Iron or Steel .....                           | 12 |
| 2. Sheet Piling and Welded Angle, Section and Shape of Iron or Steel ..... | 12 |
| 3. Tubes and Pipes of Cast Iron .....                                      | 13 |
| 4. Tubes and Pipes of Iron or Steel, Seamless .....                        | 13 |
| 5. Tubes and Pipes of Iron or Steel, Welded .....                          | 14 |
| 6. Tubes and Pipes Fitting or Iron or Steel .....                          | 16 |
| 7. Structures and Part of Structure of Iron or Steel .....                 | 17 |
| 8. Stranded Wire, Rope and Cable of Iron or Steel .....                    | 18 |
| 9. Cloth, Grill, Netting and Fencing of Iron or Steel Wire .....           | 19 |
| 10. Articles of Cast Iron .....  | 19 |
| 11. Other Articles of Iron or Steel .....                                  | 19 |

**C. ALUMINIUM PRODUCTS ( HS Code : 7604.21.90.00 - 7610.90.99.00 )**

|   |    |
|---|----|
| 1. Aluminium Bar Rod and Profil .....   | 20 |
| 2. Aluminium Plates, Sheets and Strips of a Thickness Exceeding 0.2mm .....                                     | 20 |
| 3. Aluminium Foil of a Thickness not Exceeding 0.2mm .....  | 21 |
| 4. Aluminium Structures and Parts of Structure, Door, Windows and Their Frames<br>and Threshold for Doors ..... | 22 |

# FOREWORD

The CIDB Act (Act 520), introduced in 1994, was amended in the year 2011. One of the additional provisions of the amended act was the enforcement of construction materials to adhere to specific mandatory standards.

However, not all construction materials fall under the enforcement. Only those that have high impact to the structural integrity of construction structure, which will safeguard the end user, that must be compliant to the specified standards. This encompasses iron, steel and aluminium products, which are heavily used in construction.

The "Guidebook on Compliance of Mandatory Standard for Iron, Steel and Aluminium" highlights only relevant products of the said materials. It provides the description of iron, steel and aluminium in products; the specified grades that comply to relevant mandatory standards; the essential laboratories test required under the respective standards; and the relevant HS code.

Finally, it is hoped that the procedure of this book will benefit all stakeholders in the construction value chain, particularly the regulators, contractors, consultants, manufacturers, importers, forwarders, etc.

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1. Ir Sabruddin Mohamad Suren (Moderator) : Amsteel Mills Sdn. Bhd.
2. Tuan Mohammad Salleh ismail : Jabatan Kastam Diraja Malaysia
3. Tuan Abu Zahrin Adam : Jabatan Kastam Diraja Malaysia
4. Mrs. Zuraidah Baba : SIRIM STS Sdn. Bhd.
5. Mr. Md Adha Bt Katni @ Rahmat : SIRIM QAS International Sdn. Bhd.
6. Mr. Muhammad Fahim Mahmood : SIRIM QAS International Sdn. Bhd.
7. Mr. Azam Mohamad : SIRIM QAS International Sdn. Bhd.
8. Ir. Chin Shyi Her : Melewar Steel Tube Sdn. Bhd.
9. Mr. Lee Choong Shian : Melewar Steel Tube Sdn. Bhd.
10. Mr. Ng Kian Hin : Alpine Pipe Manufacturing Sdn. Bhd.
11. Mr Chan Weng Weng : Southern Steel Berhad
12. Mr. Ooi Sau Ping : Southern Steel Rod Sdn. Bhd.
13. Mrs Roseanita Hussin : NS Bluescope (M) Sdn. Bhd.
14. Mr. Jack Chum Pak Kuan : NS Bluescope (M) Sdn. Bhd.
15. Ms. Vicki Chong : NS Bluescope (M) Sdn. Bhd.
16. Ms. Rozaina Roslan : NS Bluescope (M) Sdn. Bhd.
17. Mr. Mohd Aizam Bin Mohd Unani : FIW Steel Sdn. Bhd.
18. Mr. Yee Sen Tat : Amsteel Mills Sdn. Bhd.
19. Mr. Khik Lap Fun : LB ALuminium Bhd.
20. Mr. Mark Lim : Hoto Stainless Steel Sdn. Bhd.
21. Mr Chong Kit Wan : Hoto Stainless Steel Sdn. Bhd.
22. Mr. Ong Gouy Aun : YKGI Holdings Bhd.
23. Mr. Krishnarajah : YKGI Holdings Bhd.

- |                                      |  |
|--------------------------------------|--|
| 24. Mrs. Seri Banun Sujangi          | : MMC Gamuda KVMRT (PDP) Sdn. Bhd.                       |
| 25. Mr. Lee Kiong Kwang              | : Yew Lean Foundry & Co. Sdn. Bhd.                       |
| 26. Mrs. Suraya Johari               | : BWYS Steel Industries Sdn. Bhd.                        |
| 27. Mrs. Lilian Woo                  | : BWYS Steel Industries Sdn. Bhd.                        |
| 28. Mrs. Hasliana Abdul Rahman       | : Federation of Malaysia Manufacturers(FMM)              |
| 29. Mrs. Low Ai Lean                 | : Aluminium Company of Malaysia Berhad<br>(ALCOM)        |
| 30. Ms. Asmawati Ahmad               | : PETRONAS   |
| 31. Mr. Roslin Hashim                | : PETRONAS   |
| 32. Mr. Lim Chui Yean                | : PETRONAS   |
| 33. Mr. Muhammed Asraff Adbul Rahman | : Construction research Institute of Malaysia<br>(CREAM) |
| 34. Mr. Iylia Arif Bin Elias         | : Construction research Institute of Malaysia<br>(CREAM) |
| 35. Mr. Syed Hazni Abd Ghani         | : Construction research Institute of Malaysia<br>(CREAM) |
| 36. Mrs. Rohana Abd Manan            | : CIDB Negeri Sembilan                                   |
| 37. Mr. Sazali Che Amat              | : Bahagian Bahan Binaan, CIDB                            |
| 38. Mrs. Nor Hamiza Zahar            | : Bahagian Bahan Binaan, CIDB                            |
| 39. Mrs Azlina Omar                  | : Bahagian Bahan Binaan, CIDB                            |
| 40. Ms. Rashimah Adenan              | : Bahagian Bahan Binaan, CIDB                            |
| 41. Mr. Mohamad Nor Sani Katap       | : Bahagian Bahan Binaan, CIDB                            |
| 42. Mr. Zulkefli Ismail              | : Bahagian Bahan Binaan, CIDB                            |
| 43. Mr. Razali Hesa                  | : Bahagian Bahan Binaan, CIDB                            |
| 44. Mr. Izzat Azri Azmi              | : Bahagian Bahan Binaan, CIDB                            |
| 45. Mr. Md Nazrin Mohd Zin           | : Bahagian Bahan Binaan, CIDB                            |
| 46. Mr. Shahrudin Yahya              | : Bahagian Bahan Binaan, CIDB                            |



# ABBREVIATIONS

|         |   |
|---------|---|
| EN      | : European Standard   |
| ASTM    | : American Society for Testing and Materials                          |
| API     | : American Petroleum Institute  |
| HS Code | : Harmonized System Code  |
| PDK     | : Perintah Duti Kastam  |
| AHTN    | : ASEAN Harmonized Tariff Nomenclature                                |
| CB      | : Certification Body  |
| CIDB    | : Construction Industry Development Board                             |
| COA     | : Certificate of Approval   |
| CCPM    | : Certification of Construction Product & Material                    |
| JSM     | : Jabatan Standard Malaysia (Department of Standards Malaysia)        |
| KDRM    | : Kastam Diraja Malaysia (Royal Malaysian Customs Department)         |
| MS      | : Malaysian Standard  |
| PC      | : Product Certification   |
| PAC     | : Pacific Accreditation Cooperation                                   |
| PPS     | : Perakuan Pematuhan Standard (Certification of Standards Compliance) |
| TPIB    | : Third-Party Inspection Body   |

# GUIDEBOOK ON COMPLIANCE OF MANDATORY STANDARDS FOR IRON, STEEL AND ALUMINIUM

## 1.0 Introduction

Essentially, this book was developed to assist the stakeholders to meet CIDB's requirements on products' conformity to mandatory standards. The listed mandatory standards were determined after several consultations with industry experts. Priority was given to products that adhere to Malaysian Standard (MS).

However, in the absence of MS, the industry experts agree to use other internationally recognised standards that are commonly used in the industry.

This book is best read with 'Procedures for Importing of Construction Materials'.

## 2.0 Regulatory Policy of Construction Materials

Regulatory Policies of CIDB are as follows:

- a. All Materials/products listed in Schedule 4 of CIDB Act (amended 2011) shall obtain Certificate of Standard Compliance (PPS) from CIDB.
- b. The listing of materials/products under Schedule 4 of CIDB Act (amended 2011) are those that contribute greatly to the integrity of the structural components and the functionality of the intended completed construction works, which will have high impact on public safety and environment.

- c. All imported materials/products listed in Schedule IV of the Customs Act shall obtain COA from CIDB. The affected imported materials/products are as follows:
- Manufactured in the country of origin and imported for local consumption
  - Manufactured by local manufacturers, then exported and reimported into the country
  - Imported materials to be processed by local manufacturers; and later, the processed products are exported for foreign consumption
- d. The main technical document that is required for the consideration of issuance of PPS or COA is either PC or FTTR, issued by any accredited conformity assessment bodies (CAB).
- e. Importers are not allowed to take samples for testing at the port. However, in the face of unavoidable circumstances, the importer shall then apply for the approval of CIDB on case-by-case basis. The importers are allowed to take samples at bonded or licensed warehouses.

### 3.0 Conformance to Mandatory Standards

The manufacturers/importers shall perform all testing requirements in accordance to the listed mandatory standards. They are not allowed to test to other standards that are not listed in this guidebook, except those specially approved by CIDB.

### 4.0 Appointment of Conformity Assessment Body (CAB)

- 4.1 The manufacturers/importers shall appoint accredited CAB or those approved by CIDB to undertake all required testing.
- 4.2 The manufacturers/importers shall submit TPIB form for CIDB approval prior to the appointment of CAB for consignment test.

## 5.0 Sampling of Products for testing

- 5.1 All samples for testing must be undertaken by accredited CAB. The manufacturers/importers shall submit the relevant form for CIDB approval, prior to the appointment of CAB for sampling. All TPIB must be accompanied with mill certificate. The sampling will be carried out according to the requirements in the referred standards.
- 5.2 The appointed CAB will take the samples based on the heat number selected by CIDB.
- 5.3 The appointed CAB must prepare the sampling report in the manner required by CIDB, which may be subjected to rejection of the report by CIDB.
- 5.4 The prepared sampling report shall be submitted to CIDB together with FTTR.

## 6.0 Full Type Test Report (FTTR)

- 6.1 FTTR shall be prepared in the manner required by CIDB, failing which, the report may be rejected by CIDB. In addition, CIDB reserves the right to reject FTTR report from any CABs that has been blacklisted by CIDB.
- 6.2 The manufacturers/importers shall submit FTTR together with sampling report to CIDB head office for approval.
- 6.3 The approved FTTR will be one of the supporting documents submitted to the relevant CIDB offices for the application of COA.
- 6.4 All foreign-appointed CABs must display the International Laboratory Accreditation Cooperation (ILAC) logo in their reports.

## 7.0 Marking Requirements

- 7.1 The manufacturers/importers shall provide the marking requirements as stipulated in the corresponding standards, which can either be permanent or non-permanent.
- 7.2 All permanent markings shall be submitted to CIDB for approval.
- 7.3 For permanent marking, it shall be displayed in the mill certificate.

## 8.0 Recommended Steps for New Importers

New importers are recommended to follow the steps as shown in the flowchart (Appendix A).

## 9.0 General Statement

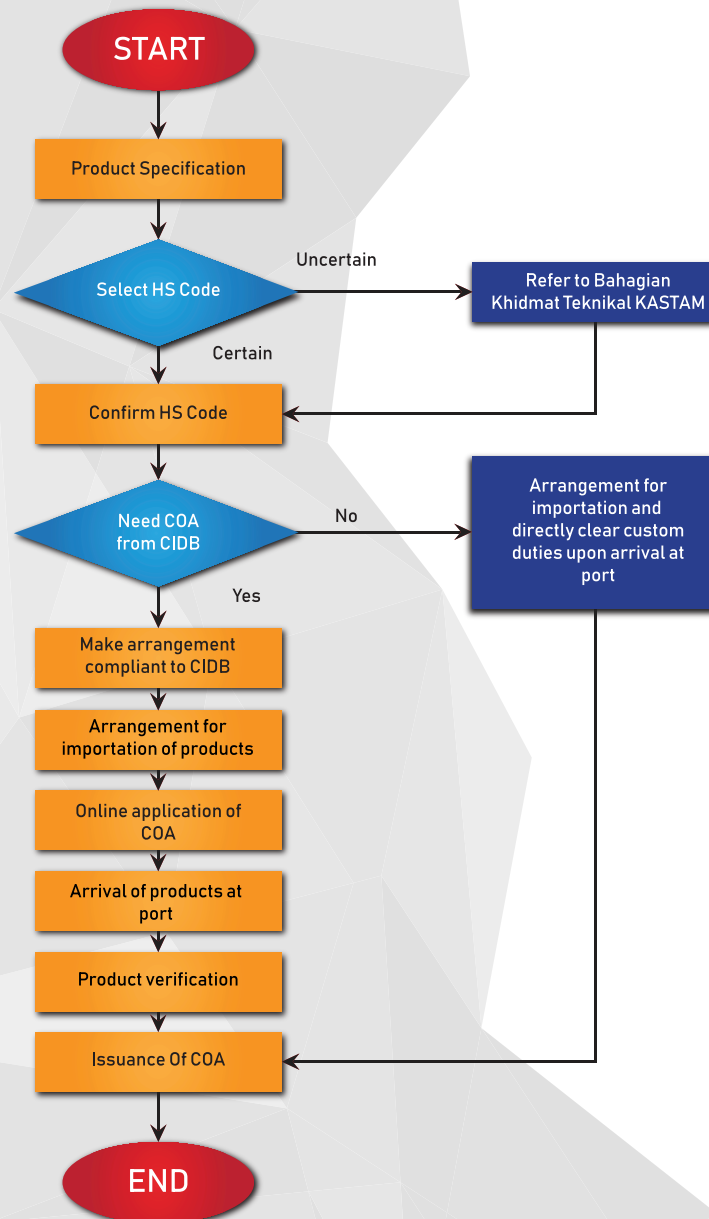
The list of all HS Codes in this book are inconclusive as there will be further updated from time to time. For HS Codes that have listed in the Customs Duties Order (PDK) but are not mentioned in this book must be referred the Royal Malaysian Customs Department for clarification.

## 10.0 Enquiries

All enquiries related to the information published in this guidebook are to be directed to [qpass@cidb.gov.my](mailto:qpass@cidb.gov.my). For any enquiries on exemption matters, please state the HS code and attach the technical specification, for e.g., technical report, product brochure, pamphlets, etc.

# APPENDIX A

## Flow Chart of Recommended Steps For New Importers



# CIDB Implementation Control On Quality For Construction And Building Materials For Iron Steel Products And Aluminium Products (2018)

## A. IRON OR STEEL PRODUCTS

### 1. Non Alloy Iron or Steel Strip, Plate or Sheet

- i Not coated, plated or clad of hot rolled non alloy steel, in strip, plate or sheet of a width 600mm or more (Width $\geq$ 600mm)

| No | Type of Construction Material                             | Approved Standard                                     | Grade  | Description Application   | Verification Standards   |                               |  |                                    | Custom Hs Code PDK 2017                           |  |
|----|---|---|--|---|--|-------------------------------|--|------------------------------------|---|--|
|    |   |   |  |   | Sampling   | Testing (Full Type Test)      | Testing (Critical Test)  | Marking                            |   |  |
| a  | Hot-rolled carbon steel strip, plate or sheet, in coil.   | 1   | MS EN 10025-2:2011                                       | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S450J0.         | For structures and fabrications  | MS EN 10025-2:2011 Clause 8.3 | MS EN 10025-2:2011 Clause 7.2 Chemical composition Clause 7.3 Mechanical Properties Clause 7.7 Dimension |                                    | MS EN 10025-2:2011 (Deilvery condition) Clause 11 | 7208.36.00.00<br>7208.37.00.00<br>7208.38.00.00<br>7208.39.90.00 |
|    |   | 2   | MS 1705:2003   | SPHC  | For further processing into expanded metals, scaffolding catwalk and staircase<br>** Parts of scaffolding, MS 1462 | MS 1705:2003 - Clause 6.0     | MS 1705:2003 - Clause 5  | MS 1705:2003 - Clause 5            | MS 1705:2003 - Clause 13                          |  |
| b  | Hot Rolled Chequered Strip, plate or sheet, in coils form | MS 2658:2016<br>*Note: To consider MS EN 10025-2:2011 | MS 2658:2016<br>*Grades correspond to MS EN 10025-2:2011 | For flooring and stair case application and other construction purpose of Carbon Steel. | Clause 8.3   | Clause 6, 8, 9                |  | Clause 9                           | 7208.10.00.00                                     |  |
| c  | Hot Rolled Chequered strip, sheets or plates, not in coil | MS 2658:2016<br>*Note: To consider MS EN 10025-2:2011 | *Grades correspond to MS EN 10025-2:2011                 | eg. for flooring-stair case application   | Clause 8.3   | Clause 6, 8, 9                |  | Clause 9                           | 7208.40.00.00                                     |  |
| d  | Hot Rolled carbon strip, steel or plate, not in coil      | 1   | MS EN 10025-2:2011                                       | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S450J0.         | For structures and fabrications  | MS EN 10025-2:2011 Clause 8.3 | MS EN 10025-2:2011 Clause 7.2 Chemical composition Clause 7.3 Mechanical Properties Clause 7.7 Dimension |                                    | MS EN 10025-2:2011 (Deilvery condition) Clause 11 | 7208.51.00.00<br>7208.52.00.00<br>7208.53.00.00<br>7208.54.90.00 |
|    |   | 2   | MS 1705:2003   | SPHC  | For further processing into expanded metals, scaffolding carwalk and staircase<br>** Parts of scaffolding, MS 1462 | MS 1705:2003 - Clause 6.0     | MS 1705:2003 - Clause 4.2, 4.6 & 5   | MS 1705:2003 - Clause 4.2, 4.6 & 5 | MS 1705:2003 - Clause 13                          |  |

ii Not coated, plated or clad of hot rolled non alloy steel, in strip, plate or sheet of a width 600mm or more (Width<600mm)

| No | Type of Construction Material                          | Approved Standard | Grade              | Description Application   | Verification Standards   |                                 |  |                                    | Custom Hs Code PDK 2017                             |  |
|----|--|-------------------|--------------------|---|--|---------------------------------|--|------------------------------------|---|--|
|    |  |                   |                    |   | Sampling   | Testing (Full Type Test)        | Testing (Critical Test)  | Marking                            |   |  |
| a  | Hot-rolled carbon steel strip, plate or sheet, in coil | 1                 | MS EN 10025-2:2011 | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S450J0. | For structures and fabrications  | MS EN 10025-2:2011 Clause 8.3   | MS EN 10025-2:2011 Clause 7.2 Chemical composition<br>Clause 7.3 Mechanical Properties<br>Clause 7.7 Dimension |                                    | MS EN 10025-2 : 2011 (Deilvery condition) Clause 11 | 7211.13.11.00<br>7211.13.19.00<br>7211.13.91.10<br>7211.13.91.90<br>7211.13.99.00<br>7211.14.13.00<br>7211.14.91.00<br>7211.19.13.00 |
|    |  | 2                 | MS 1705:2003       | SPHC  | For further processing into expanded metals, scaffolding carwalk and staircase<br>** Parts of scaffolding, MS 1462 | MS 1705:2003 - Clause 6.0       | MS 1705:2003 - Clause 4.2, 4.6 & 5   | MS 1705:2003 - Clause 4.2, 4.6 & 5 | MS 1705:2003 - Clause 13                            |  |
| b  | Hot-rolled carbon strips, steel or plate, not in coil. | 1                 | MS EN 10025-2:2011 | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S450J0. |  | MS EN 10025-2 : 2011 Clause 8.3 |  |                                    | MS EN 10025-2 : 2011 (Deilvery condition) Clause 11 | 7211.13.11.00<br>7211.14.13.00<br>7211.19.13.00  |
|    |  | 2                 | MS 1705:2003       | SPHC  | For further processing into expanded metals, scaffolding carwalk and staircase<br>** Parts of scaffolding, MS 1462 | MS 1705:2003 - Clause 6.0       | MS 1705:2003 - Clause 4.2, 4.6 & 5   | MS 1705:2003 - Clause 4.2, 4.6 & 5 | MS 1705:2003 - Clause 13                            |  |

iii Coated, plated or clad of non alloy steel coil, strip, plate or sheet of a width 600mm or more (Width≥600mm)

| No | Type of Construction Material  | Approved Standard | Grade                                | Description Application   | Verification Standards  |  |   |   | Custom Hs Code PDK 2017   |  |
|----|--|-------------------|--------------------------------------|---|---|--|---|---|---|--|
|    |  |                   |                                      |   | Sampling  | Testing (Full Type Test)   | Testing (Critical Test)                                 | Marking                                   |   |  |
| a  | Electrolytically plated or coated with zinc  | MS 2543 : 2014    | SECC<br>SECD<br>SEHC<br>SEHD         | Door Frame/Window Frame/Roller shutter and any other construction application         | MS 2543 - Clause 6<br><br>Sampling size: 400mm x 400mm x 1pc  | MS 2543 - Clause 4.3, 4.5.1, 4.5.2, 4.6, 5                           | MS 2543 - Clause 4.5.1, 4.6                             | MS 2543 - Clause 13                       | 7210.30.11.00<br>7210.30.12.00<br>7210.30.19.00<br>7210.30.91.00<br>7210.30.99.00 |  |
| b  | Hot Dip Zinc Coated and other method of zinc coated strips, plate or sheet, whether or not in coil | 1                 | MS 2500 : 2012 (With Profile) Sheets | Grade 220, 250, 280, 320, 350, 550, 01, 02, 03<br>Coating Designation: Z or ZF series | Roof/Cladding/ceiling panels or roofing accessories and any other construction application. Thickness 0.15 to 0.6mm (most commonly used)  | Sampling size: full covered width x 3m x 2 pcs                       | MS 2500 : 2012 Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 5.2 | MS 2500 : 2012 Clause 4.2.1, 4.2.2, 4.2.3 | MS 2500 : 2012 Clause 7.1   | 7210.41.11.00<br>7210.41.12.00<br>7210.41.19.00<br>7210.41.91.00<br>7210.49.11.00<br>7210.49.12.00<br>7210.49.13.00<br>7210.49.19.00<br>7210.49.91.00<br>7210.49.99.00 |
|    |  | 2                 | MS 2384 : 2011                       | Grade 220, 250, 280, 320, 350, 550,<br>Coating Designation: Z or ZF series            | Roof/Cladding/Batten/ductings/ceiling panels/roller shutter or roofing accessories and any other construction application.<br>Roofing/Cladding Thickness 0.15 to 0.6mm<br>Roof Baten Thickness 0.40 to 0.60mm<br>Roof truss and purlin Thickness > 0.70mm (most commonly used) if hot rolled base type is used, the minimum thickness shall be 1.40mm and above | MS 2348 : 2012 - Clause 5<br><br>Sampling size: 400mm x 400mm x 1 pc | MS 2543 : 2011 - Clause 4.1, 4.2, 4.3, 4.7              | MS 2543 : 2011 - Clause 4.2, 4.3.1        | MS 2384 : 2011 - Clause 11  | 7210.49.11.00<br>7210.49.12.00<br>7210.49.13.00<br>7210.49.19.00<br>7210.49.91.00<br>7210.49.99.00   |



| No | Type of Construction Material               | Approved Standard                      | Grade   | Description Application  | Verification Standards   |   |   |                                    | Custom Hs Code PDK 2017   |
|----|---|--|---|--|--|---|---|------------------------------------|---|
|    |   |  |   |  | Sampling   | Testing (Full Type Test)  | Testing (Critical Test)                     | Marking                            |   |
|    |   | 3 MS 2385 : 2011                       | Grade 01, 02, 03, 04, 05<br>Coating Designation: Z or ZF series                                     | Ducting/Roof/Cladding or roofing accessories/roller shutter and any other construction application<br>Roof/Cladding Thickness 0.15 to 0.6mm (most commonly used) | MS 2385 : 2011 - Clause 5<br><br>Sampling size: 400mm x 400mm x 1 pc   | MS 2385 : 2011 - Clause 4.1, 4.2, 4.3, 4.8                          | MS 2385 : 2011 - Clause 4.2, 4.3.1          | MS 2385 : 2011 - Clause 11         | 7210.49.11.00<br>7210.49.12.00<br>7210.49.13.00<br>7210.49.19.00<br>7210.49.91.00<br>7210.49.99.00  |
|    |   | 4 AS 1397 : 2011                       | G450, G500<br>Coating Designation: Z or ZF series   |  | AS 1397 : 2011 Appendix B2<br><br>Sampling size: 400mm x 400mm x 1 pc  | AS 1397 : 2011 - Clause 2.2.2, 2.3.1, 2.5, 3.2.1, 3.3.1             | AS 1397 : 2011 - Clause 2.3.1, 3.2.1        | AS 1397 : 2011 - Clause 1.7        |   |
| c  | Plated or coated with aluminium-zinc alloys | 1 MS 2500 : 2012 (With Profile) Sheets | Grade 220, 250, 280, 300, 320, 350, 380, 550, 01, 02, 03<br>Coating Designation: ZA, AZ, ZM, AM     | Roof/Cladding/Ceiling Panels or roofing accessories and any other construction application.<br>Thickness 0.15 to 0.6mm (most commonly used)                      | Sampling size: Full covered width x 3m x 2 pcs   | MS 2500 : 2012 - Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 5.2           | MS 2500 : 2012 - Clause 4.2.1, 4.2.2, 4.2.3 | MS 2500 : 2012 - Clause 7.1        | 7210.61.11.00<br>7210.61.12.00<br>7210.61.19.00<br>7210.61.91.00<br>7210.61.92.00<br>7210.61.99.00<br>7210.69.11.00<br>7210.69.12.00<br>7210.69.19.00<br>7210.69.91.00<br>7210.69.99.00 |
|    |   |  | 2 MS 1196 : 2014  | Grade 220, 250, 280, 300, 320, 350, G550, 01, 02, 03<br>Coating Designation: AZ  | Roof/Cladding/Batten/Ductings/Ceiling Panels/Roller Shutter or roofing accessories and any other construction application.<br><br>Roofing/Cladding Thickness 0.15 to 0.6mm<br><br>Roof Batten Thickness 0.40 to 0.60mm<br>Roof truss and purlin Thickness > 0.70mm (most commonly used) if hot rolled base type is used, the minimum thickness shall be 1.40mm and above | MS 1196 : 2014 - Clause 6<br><br>Sampling size 400mm x 400mm x 1 pc | MS 1196 : 2014 - Clause 5.1, 5.2, 5.3, 5.8  | MS 1196 : 2014 - Clause 5.2, 5.3.1 |   |
|    |   | 3 MS 2657 : 2016                       | Grade 250, 280, 300, 320, 350, 400, 450, 550, 01, 02, 03, 04, 05<br>Coating Designation: ZA, ZM, AM | MS 2657 - Clause 6<br>Sampling size 400mm x 400mm x 1 pc   | MS 2657 - Clause 5.1, 5.2, 5.3, 5.7  | MS 2657 - Clause 5.2, 5.3.1   | MS 2657 - Clause 13                         |                                    |   |
|    |   | 4 AS1397 : 2011                        | G450, G500<br>Coating Designation: ZA, ZM, AZ, AM   |  |  |   |   |                                    | AS1397 : 2011 - Appendix B2<br><br>Sampling size: 400mm x 400mm x 1 pc  |

| No | Type of Construction Material  | Approved Standard                    | Grade                                    | Description Application  | Verification Standards   |  |   |   | Custom Hs Code PDK 2017                         |  |
|----|--|--------------------------------------|--|--|--|--|---|---|---|--|
|    |  |                                      |  |  | Sampling   | Testing (Full Type Test)   | Testing (Critical Test)                                       | Marking                                   |   |  |
| d  | Painted, varnished or coated with plastics                               | 1                                    | MS 2500 : 2012 (With Profile) Sheets     | Grade 220, 250, 280, 300, 320, 350, 380, 550, 01, 02, 03<br>Coating Designation: Z, ZF, ZA, AZ, AM, ZM   | Roof/Cladding/ceiling panels /wall paneling or roofing accessories and any other construction application.<br><br>Thickness 0.15 to 0.6mm (most commonly used) | Sampling size full covered width x 3m x 2 pcs                          | MS 2500 : 2012 Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 5.2       | MS 2500 : 2012 Clause 4.2.1, 4.2.2, 4.2.3 | MS 2500 : 2012 Clause 7.1                       | 7210.70.11.00<br>7210.70.19.00<br>7210.70.91.10<br>7210.70.91.90<br>7210.70.99.10<br>7210.70.99.90 |
|    |  | 2                                    | MS 2383 : 2011                           | Grade 220, 250, 280, 300, 320, 350, 380, 550, 01, 02, 03<br>Coating Designation: Z, ZF, ZA, AZ, AM, ZM   | Roof/Cladding/ceiling panels or ceiling strips/wall panelling/roller shutter and roofing accessories and any other construction application.                   | MS 2383 : 2011<br><br>Sampling size 400mm x 400mm x 2pcs               | MS 2383 : 2011 – Clause 2.3, 2.4, 2.5, 2.6.1, 2.7, 2.8, 2.9.1 | MS 2383 : 2011 – Clause 2.3, 2.4, 2.6.1   | MS 2383 : 2011 Annex A – Clause A3              |  |
|    |  | 3                                    | MS 2384 : 2011                           | Grade 220, 250, 280, 300, 320, 350, 380, 550, 01, 02, 03<br>Coating Designation: Z, ZF,  |  | MS 2384 : 2011 – Clause 5  | MS 2384 : 2011 – Clause 4.1, 4.2, 4.3, 4.7                    | MS 2384 : 2011 – Clause 4.2, 4.3.1        | MS 2384 – Clause 11                             |  |
|    |  | 4                                    | MS 2385 : 2011                           | Grade 01, 02, 03<br>Coating Designation: Z, ZF   |  | MS 2385 – Clause 5   | MS 2385 : 2011 – Clause 4.1, 4.2, 4.3, 4.8                    | MS 2385 : 2011 – Clause 4.2, 4.3.1        | MS 2385 – Clause 11                             |  |
|    |  | 5                                    | MS 2657 : 2016                           | Grade 250, 280, 300, 320, 350, 400, 450, 550, 01, 02, 03, 04, 05<br>Coating Designation: ZA, ZM, AM  |  | MS 2657 : Clause 6<br><br>Sampling size 400mm x 400mm x 1 pc           | MS 2657 : Clause 5.1, 5.2, 5.3, 5.7                           | MS 2657 : Clause 5.2, 5.3.1               | MS 2657 : Clause 13                             |  |
|    |  | 6                                    | MS 1196 : 2014                           | Grade 220, 250, 280, 300, 320, 350, G550, 01, 02, 03<br>Coating Designation: AZ  |  | MS 1196 : 2014 – Clause 6  | MS 1196 : 2014 – Clause 5.1.5.2, 5.3, 5.8                     | MS 1196 : 2014 – Clause 5.2, 5.3.1        | MS 1196 : 2014 – Clause 12.0                    |  |
|    |  | 7                                    | AS1397 : 2011                            | G450, G500<br>Coating Designation: Z, ZF, ZA, ZM, AZ, AM   |  | AS1397 : 2011 – Appendix B2<br><br>Sampling size: 400mm x 400mm x 1 pc | AS1397 : 2011 – Clause 2.2.2, 2.3.1, 2.5, 3.2.1, 3.3.1        | AS1397 : 2011 – Clause 2.3.1, 3.2.1       | AS1397 : 2011 – Clause 1.7                      |  |
| e  | Pre-painted hot-rolled carbon steel strips, plate or sheets, not in coil | MS 2500 : 2012 (With Profile) Sheets | G250, G280, G300, G320, G350, G380, G550 | Roof/cladding/ceiling panels roller shutter or roofing accessories and any other construction application.<br><br>Thickness 0.15 to 0.6mm (most commonly used) | MS 2500 : 2012 – Clause 5.2<br><br>Sampling size 400mm x 400mm x 2 pcs   | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 4.3.5, 5.2       | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3                   | MS 2500 : 2012 – Clause 7.1               | 7210.70.11.00<br>7210.70.91.00<br>7210.70.91.90 |  |

iv Coated, plated or clad of non alloy steel in strip, plate or sheet of a width less than 600mm (Width < 600mm)

| No | Type of Construction Material   | Approved Standard | Grade                                   | Description Application  | Verification Standards  |  |   |   | Custom Hs Code PDK 2017  |  |
|----|---|-------------------|---|--|---|--|---|---|--|--|
|    |   |                   |   |  | Sampling  | Testing (Full Type Test)   | Testing (Critical Test)   | Marking   |  |  |
| a  | Electrolytically plated or coated with zinc   | MS 2543 : 2014    | SECC<br>SECD<br>SEHC<br>SEHD            | Door Frame/Window Frame/<br>Roller shutter any other<br>construction application.                                | MS 2543 – Clause 6<br><br>Sampling size:<br>400mm x 400mm<br>x 1 pc   | MS 2543 –<br>Clause 4.3, 4.5.1, 4.5.2,<br>4.6, 5                               | MS 2543 –<br>Clause 4.5.1, 4.6                                  | MS 2543 –<br>Clause 13                            | 7212.20.10.10<br>7212.20.10.90<br>7212.20.20.00<br>7212.20.90.00 |  |
| b  | Hot dip zinc coated<br>and other method of<br>zinc coated in strip,<br>plate or sheet whether<br>or not in coil | 1                 | MS 2500 : 2012<br>(With Profile) Sheets | Grade 220, 250,<br>280, 300, 320,<br>350, 380, 550,<br>01, 02, 03<br>Coating<br>Designation:<br>Z, ZF            | Roof/Cladding/ceiling<br>panels or roofing<br>accessories and any other<br>construction application.<br>Thickness 0.15 to 0.6mm<br>(most commonly used)   | Sampling size:<br>Full covered<br>width x 3m x 2 pcs                           | MS 2500 : 2012 –<br>Clause 4.2.1, 4.2.2,<br>4.2.3, 4.3.3.2, 5.2 | MS 2500 : 2012 –<br>Clause 4.2.1, 4.2.2,<br>4.2.3 | MS 2500 : 2012 –<br>Clause 7.1                                   | 7212.30.11.00<br>7212.30.12.00<br>7212.30.13.00<br>7212.30.14.00<br>7212.30.19.00<br>7212.30.90.00   |
|    |   | 2                 | MS 2384 : 2011                          | Grade 220, 250,<br>280, 300, 320,<br>350, 380, 550,<br>Coating<br>Designation:<br>Z, ZF                          | Roof/Cladding/Batten/<br>ductings/ceiling panels/<br>roller shutter or roofing<br>accessories and any other<br>construction application.<br><br>Roofing/Cladding<br>Thickness 0.15 to 0.6mm   | MS 2384 : 2011 –<br>Clause 5<br><br>Sampling size:<br>400m x 400mm<br>x 1 pc   | MS 2384 : 2011 –<br>Clause 4.1, 4.2, 4.3, 4.7                   | MS 2384 : 2011 –<br>Clause 4.2, 4.3.1             | MS 2384 : 2011 –<br>Clause 11                                    |  |
|    |   | 3                 | MS 2385 : 2011                          | Grade 01, 02, 03,<br>Coating<br>Designation:<br>Z, ZF  | Roof Batten<br>Thickness 0.40 to 0.60mm<br>Roof truss and purlin<br>Thickness > 0.70mm<br>(most commonly used)  | MS 2385 : 2011 –<br>Clause 5<br><br>Sampling size:<br>400mm x 400mm<br>x 1 pc  | MS 2385 : 2011 –<br>Clause 4.1, 4.2, 4.3, 4.8                   | MS 2385 : 2011 –<br>Clause 4.2, 4.3.1             | MS 2385 : 2011 –<br>Clause 11                                    |  |
|    |   | 4                 | AS 1397 : 2011                          | G450, G500<br>Coating<br>Designation:<br>Z or ZF series  | If hot rolled base type is used,<br>the minimum thickness shall<br>be 1.40mm and above.   | AS 1397 : 2011<br>Appendix B2<br><br>Sampling size:<br>400mm x 400mm<br>x 1 pc | AS 1397 : 2011 –<br>Clause 2.2.2, 2.3.1, 2.5,<br>3.2.1, 3.3.1   | AS 1397 : 2011 –<br>Clause 2.3.1, 3.2.1           | AS 1397 : 2011 –<br>Clause 1.7                                   |  |
| c  | Plated or coated with<br>aluminium-zinc alloys  | 1                 | MS 2500 : 2012<br>(With Profile) Sheets | Grade 220, 250,<br>280, 300, 320,<br>350, 380, 550,<br>01, 02, 03<br>Designation:<br>ZA, AZ, ZM, AM              | Roof/Cladding/ceiling panels<br>or roofing accessories and<br>any other construction<br>application.<br>Thickness 0.15 to 0.6mm<br>(most commonly used)   | Sampling size:<br>Full covered<br>width x 3m x 2 pcs                           | MS 2500 : 2012 –<br>Clause 4.2.1, 4.2.2,<br>4.2.3, 4.3.3.2, 5.2 | MS 2500 : 2012 –<br>Clause 4.2.1, 4.2.2,<br>4.2.3 | MS 2500 : 2012 –<br>Clause 7.1                                   | 7212.30.11.00<br>7212.30.12.00<br>7212.30.13.00<br>7212.30.14.00<br>7212.30.19.00<br>7212.30.90.00<br>7212.50.23.00<br>7212.50.24.10<br>7212.50.24.90<br>7212.50.29.10<br>7212.50.29.90<br>7212.50.93.00<br>7212.50.94.10<br>7212.50.94.90<br>7212.50.99.10<br>7212.50.99.90 |
|    |   | 2                 | MS 1196 : 2014                          | Grade 220, 250,<br>280, 300, 320,<br>350, G550,<br>01, 02, 03<br>Coating<br>Designation: AZ                      | Roof/Cladding/Batten/<br>Ductings/ceiling panels/<br>roller shutter or roofing<br>accessories and any other<br>construction application<br>Roofing/Cladding<br>Thickness 0.15 to 0.6mm<br><br>Roof Batten<br>Thickness 0.40 to 0.60mm<br>Roof truss and purlin<br>Thickness > 0.70mm<br>(most commonly used)<br><br>If hot rolled base type is<br>used, the minimum<br>thickness shall be<br>1.40mm and above | MS 1196 : 2014 –<br>Clause 6<br><br>Sampling size<br>400mm x 400mm<br>x 1 pc   | MS 1196 : 2014 –<br>Clause 5.1, 5.2, 5.3, 5.8                   | MS 1196 : 2014 –<br>Clause 5.2, 5.3.1             | MS 1196 : 2014 –<br>Clause 12.0                                  |  |
|    |   | 3                 | MS 2657 : 2016                          | Grade 250, 280,<br>300, 320, 350<br>400, 450, 550<br>01, 02, 03, 04, 05<br>Coating<br>Designation:<br>ZA, ZM, AM |   | MS 2657 – Clause 6<br>Sampling size<br>400mm x 400mm<br>x 1 pc                 | MS 2657 –<br>Clause 5.1, 5.2, 5.3, 5.7                          | MS 2657 –<br>Clause 5.2, 5.3.1                    | MS 2657 –<br>Clause 13   |  |

| No | Type of Construction Material  | Approved Standard                    |  | Grade   | Description Application  | Verification Standards   |   |   |   | Custom Hs Code PDK 2017   |
|----|--|--------------------------------------|--|---|--|--|---|---|---|---|
|    |  |                                      |  |   |  | Sampling   | Testing (Full Type Test)                                      | Testing (Critical Test)                   | Marking   |   |
|    |  | 4                                    | AS1397: 2011                             | G450, G500<br>Designation:<br>ZA, ZM, AZ, AM  |  | AS 1397: 2011 – Appendix B2<br><br>Sampling size 400mm x 400mm x 1 pc  | AS 1397 : 2011 – Clause 2.2.2, 2.3.1, 2.5, 3.2.1, 3.3.1       | AS 1397 : 2011 – Clause 2.3.1, 3.2.1      | AS 1397 : 2011 – Clause 1.7   |   |
| d  | Painted, varnished or coated with plastics                               | 1                                    | MS 2500 : 2012 (With Profile) Sheets     | Grade 220, 250, 280, 300, 320, 350, 380, 550, 01, 02, 03<br>Coating Designation: Z, ZF, ZA, AZ, AM, ZM  | Roof/Cladding/ceiling panels /wall paneling or roofing accessories and any other construction application.                                   | Sampling size full covered width x 3m x 2 pcs                          | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 5.2     | MS 2500 : 2012 Clause 4.2.1, 4.2.2, 4.2.3 | MS 2500 : 2012 Clause 7.1   | 7212.40.11.10<br>7212.40.11.90<br>7212.40.12.00<br>7212.40.19.00<br>7212.40.91.10<br>7212.40.91.90<br>7212.40.92.10<br>7212.40.92.20<br>7212.40.99.00 |
|    |  | 2                                    | MS 2383 : 2011                           | Grade 220, 250, 280, 320, 350, 380, 550, 01, 02, 03<br>Coating Designation: Z, ZF, ZA, AZ, AM, ZM   | Roof/Cladding/ceiling panels or ceiling strips/wall panelling/roller shutter and roofing accessories and any other construction application. | MS 2383 : 2011<br><br>Sampling size 400mm x 400mm x 2 pcs              | MS 2383 : 2011 – Clause 2.3, 2.4, 2.5, 2.6.1, 2.7, 2.8, 2.9.1 | MS 2383 : 2011 – Clause 2.3, 2.4, 2.6.1   | MS 2383 : 2011 Annex A – Clause A3  |   |
|    |  | 3                                    | MS 2384 : 2011                           | Grade 220, 250, 280, 300, 320, 350, 380, 550, Coating Designation: Z, ZF  |  | MS 2384 : 2011 – Clause 5  | MS 2384 : 2011 – Clause 4.1, 4.2, 4.3, 4.7                    | MS 2384 : 2011 – Clause 4.2, 4.3.1        | MS 2384 – Clause 11   |   |
|    |  | 4                                    | MS 2385 : 2011                           | Grade 01, 02, 03<br>Coating Designation: Z, ZF  |  | MS 2385 – Clause 5   | MS 2385 : 2011 – Clause 4.1, 4.2, 4.3, 4.8                    | MS 2385 : 2011 – Clause 4.2, 4.3.1        | MS 2385 – Clause 11   |   |
|    |  | 5                                    | MS 2657 : 2016                           | Grade 250, 280, 300, 320, 350, 400, 450, 550 01, 02, 03, 04, 05<br>Coating Designation: ZA, ZM, AM  |  | MS 2657: Clause 6<br><br>Sampling size 400mm x 400mm x 1 pc            | MS 2657 : Clause 5.1, 5.2, 5.3, 5.7                           | MS 2657 : Clause 5.2, 5.3.1               | MS 2657 : Clause 13   |   |
|    |  | 6                                    | MS 1196 : 2014                           | Grade 220, 250, 280, 300, 320, 350, G550, 01, 02, 03<br>Coating Designation: AZ   |  | MS 1196 : 2014 – Clause 6  | MS 1196 : 2014 – Clause 5.1, 5.2, 5.3, 5.8                    | MS 1196 : 2014 – Clause 5.2, 5.3.1        | MS 1196 : 2014 – Clause 12.0  |   |
|    |  | 7                                    | AS1397 : 2011                            | G450, G500<br>Coating Designation: Z, ZF, ZA, ZM, AZ, AM  |  | AS1397 : 2011 – Appendix B2<br><br>Sampling size: 400mm x 400mm x 1 pc | AS1397 : 2011 – Clause 2.2.2, 2.3.1, 2.5, 3.2.1, 3.3.1        | AS1397 : 2011 – Clause 2.3.1, 3.2.1       | AS1397 : 2011 – Clause 1.7  |   |
| e  | Pre-painted hot-rolled carbon steel strips, plate or sheets, not in coil | MS 2500 : 2012 (With Profile) Sheets | G250, G280, G300, G320, G350, G380, G550 | Roof/Cladding/ceiling panels /roller shutter or roofing accessories and any other construction application.<br><br>Thickness 0.15 to 0.6mm (most commonly used) | MS 2500 : 2012 – Clause 5.2<br><br>Sampling size 400mm x 400mm x 2 pcs   | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 4.3.5, 5.2       | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3                   | MS 2500 : 2012 – Clause 7.1               | 7212.40.11.10<br>7212.40.11.90<br>7212.40.12.00<br>7212.40.19.00<br>7212.40.91.10<br>7212.40.91.90<br>7212.40.92.10<br>7212.40.92.20<br>7212.40.99.00 |   |

## 2. Non Alloy of Iron or Steel Bar and Rod

| No  | Type of Construction Material   | Approved Standard       | Grade   | Description Application  | Verification Standards             |   |  |                                  | Custom Hs Code PDK 2017  |
|-----|---|-------------------------|---|--|------------------------------------|---|--|----------------------------------|--|
|     |   |                         |   |  | Sampling                           | Testing (Full Type Test)  | Testing (Critical Test)  | Marking                          |  |
| i   | Deformed or ribbed Steel in Coil for Reinforcement of Concrete (DBIC)     | MS 146 : 2014           | B500A<br>B500B<br>B500C   | Deformed or ribbed for cut and bent (various shape and length), precast piles and structure, straighten bars, wire mesh and others construction purpose.           | MS 146 : 2014 - Clause 8.1.2       | MS 146 : 2014 - Clause 7.1, 7.2, 7.3.3, 7.3.4, 7.3.5, 7.4, 7.5                            | MS 146 : 2014 - Clause 7.1, 7.3.3, 7.3.5, 7.4.2                  | MS 146 : 2014 - Clause 10 & 11   | 7213.10.10.00  |
| ii  | Steel Rod (Circular Cross Section in coil)                                | 1 MS ISO 16120-2 : 2008 | C7D, C9D, C10D, C12D, C15D, C18D, C20D  | For construction related industry such as wire mesh, tie rods, stirrups and links, chain link fence, gabion etc.   | MS ISO 16120-1 : 2008 Clause 9.3   | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2, 3.3, 3.4, 3.5           | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2 | MS ISO 16120-1 : 2008 Clause 10  | 7213.91.20.00<br>7213.91.90.00<br>7213.99.20.00<br>7213.99.90.00 |
|     |   | 2 MS ISO 16120-4 : 2008 | C8D2, C10D2, C12D2, C15D2, C18D2, C20D2   | For construction related industry such as wire mesh, tie rods, stirrups and links, chain link fence, gabion etc.   | MS ISO 16120-1 : 2008 Clause 9.3   | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2 | MS ISO 16120-1 : 2008 Clause 10  |  |
|     |   | 3 MS ISO 16120-2 : 2008 | C62D, C66D, C68D, C70D, C72D, C76D, C78D, C80D, C82D, C86D, C88D, C92D                    | For construction related industry such as wire rope, prestressed concrete wire (PC Wires), prestressed strand wire (PC strand) etc.                                | MS ISO 16120-1 : 2008 Clause 9.3   | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2, 3.3, 3.4, 3.5           | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2 | MS ISO 16120-1 : 2008 Clause 10  |  |
|     |   | 4 MS ISO 16120-4 : 2008 | C62D2, C66D2, C68D2, C70D2, C72D2, C76D2, C78D2, C80D2, C82D2, C86D2, C88D2, C92D2, C98D2 | For construction related industry such as wire rope, prestressed concrete wire (PC Wires), prestressed strand wire (PC strand) etc.                                | MS ISO 16120-1 : 2008 Clause 9.3   | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 | MS ISO 16120-1 : 2008 Clause 8, MS ISO 16120-2 : 2008 Clause 3.2 | MS ISO 16120-1 : 2008 Clause 10  |  |
|     |   | 5 MS 144:2014           | G500 (Ribbed or plain) / G250 (plain) For Dia <= 12mm                                     | Ribbed and plain round bars in coil form for cut and bent (various shape and length), precast piles and structure, straighten bars and others construction purpose | MS 144:2014 - Clause 8.1.2         | MS 144:2014 - Clause 7.1, 7.2, 7.3, 7.4 (Ribbed only)                                     | MS 144:2014 - Clause 7.1, 7.2, 7.3                               | MS 144:2014 - Clause 10 & 11     |  |
| iii | Deformed or Ribbed for Reinforcement of Concrete (diameter 2.5mm to 12mm) | MS 144:2014             | G500  | For cut and bent (various shape and length), precast piles and structure, straighten bars and others construction purpose  | MS 144:2014 - Clause 8.1.2         | MS 144:2014 - Clause 7.1, 7.2, 7.3, 7.4 (Ribbed only)                                     | MS 144:2014 - Clause 7.1, 7.2, 7.3                               | MS 144:2014 - Clause 10 & 11     | 7214.99.91.00  |
| iv  | Plain Round Steel for Reinforcement of Concrete (diameter 2.5mm to 12mm)  | MS 144:2014             | G500 & G250   | For cut and bent (various shape and length), precast piles and structure, straighten bars and others construction purpose  | MS ISO 144:2014 - Clause 8.1.2     | MS ISO 144:2014 - Clause 7.1, 7.2, 7.3, 7.4 (Ribbed only)                                 | MS ISO 144:2014 - Clause 7.1, 7.2, 7.3                           | MS ISO 144:2014 - Clause 10 & 11 | 7214.99.91.00  |
| v   | Carbon Steel Flat Bar for Structural                                      | MS EN 10025-2 : 2011    | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0    | Flat bar for building platform, drain covers, structural steel fabricated industrial building, transmission towers, aircond hanging brackets                       | MS EN 10025-2 : 2011- Clause 8 & 9 | MS EN 10025-2 : 2011- Clause 7.2, 7.3 & 7.7, EN10058                                      | MS EN 10025-2 : 2011- Clause 7.2, 7.3 & 7.7, EN10058             | MS EN 10025-2 : 2011- Clause 11  | 7214.91.12.00<br>7214.91.19.00                                   |
| vi  | Deformed or ribbed Steel Bar for Reinforcement of Concrete - Straight     | MS 146 : 2014           | B500A<br>B500B<br>B500C   | For cut and bent (various shape and length), precast piles and structure, straighten bars and others construction purpose  | MS ISO 146:2014 - Clause 8.1.2     | MS 146:2014 - Clause 7.1, 7.2, 7.3.3, 7.3.4, 7.3.5, 7.4, 7.5                              | MS 146:2014 - Clause 7.1, 7.3.3, 7.3.5, 7.4.2                    | MS 146:2014 - Clause 10 & 11     | 7214.20.31.00<br>7214.20.39.00                                   |
| vii | Deformed or ribbed bar, cold rolled, in straight form (for wire mesh)     | MS 146 : 2014           | B500A<br>B500B<br>B500C   | Deformed or ribbed wire for wire mesh  | MS 146:2014 - Clause 8.1.2         | MS 146:2014 - Clause 7.1, 7.2, 7.3.3, 7.3.4, 7.3.5, 7.4, 7.5                              | MS 146:2014 - Clause 7.1, 7.3.3, 7.3.5, 7.4.2                    | MS 146:2014 - Clause 10 & 11     | 7215.50.91.00<br>7215.50.99.00                                   |

### 3. Non Alloy of Iron or Steel Angle, Section and Shape

| No  | Type of Construction Material                                   | Approved Standard                    | Grade  | Description Application  | Verification Standards   |   |   |  | Custom Hs Code PDK 2017   |
|-----|---|--------------------------------------|--|--|--|---|---|--|---|
|     |   |                                      |  |  | Sampling   | Testing (Full Type Test)  | Testing (Critical Test)   | Marking  |   |
| i   | Angles, Shapes and Section U, I, L, T and H                     | MS EN 10025-2 : 2011                 | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0 | For transmission tower and building  | MS EN 10025-2 : 2011- Clause 8 & 9                                     | MS EN 10025-2 : 2011- Clause 7.2, 7.3 & 7.7<br>Angles : EN10056-1, EN10056-2<br>I & H-Section : EN10034<br>U-Section : EN 10279<br>Taper flange I Sections: EN10024<br>T Sections: EN 10055 | MS EN 10025-2 : 2011- Clause 7.2, 7.3 & 7.7<br>Angles : EN10056-1, EN10056-2<br>I & H-Section : EN10034<br>U-Section : EN 10279<br>Taper flange I Sections: EN10024<br>T Sections: EN 10055 | MS EN 10025-2 : 2011- Clause 11  | 7216.10.00.00<br>7216.21.10.00<br>7216.21.90.00<br>7216.22.00.00<br>7216.31.10.00<br>7216.31.90.00<br>7216.32.10.00<br>7216.32.90.00<br>7216.33.11.00<br>7216.33.19.00<br>7216.33.90.00<br>7216.40.10.00<br>7216.40.90.00<br>7216.50.11.00                  |
| ii  | Bearing Piles – H, I section, angle and shapes                  | MS EN 10025-2 : 2011                 | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0 | For transmission tower and building  | MS EN 10025-2 : 2011- Clause 8 & 9                                     | MS EN 10025-2 : 2011- Clause 7.2, 7.3 & 7.7, EN10056-1<br>EN10056-2<br>I & H-Section : EN10034<br>U-Section : EN 10279<br>Taper flange I Sections: EN10024<br>T Sections: EN 10055          | MS EN 10025-2 : 2011- Clause 7.2, 7.3 & 7.7,<br>EN10056-1,<br>EN10056-2<br>I & H-Section : EN10034<br>U-Section : EN 10279<br>Taper flange I Sections: EN10024<br>T Sections: EN 10055      | MS EN 10025-2 : 2011- Clause 11<br>Grade, Quality, Cast Number, Manufacturer's Name or Mark. | 7216.50.19.10<br>7216.50.19.90<br>7216.50.91.00<br>7216.50.99.00<br>7216.61.00.14<br>7216.61.00.19<br>7216.61.00.20<br>7216.69.00.14<br>7216.69.00.19<br>7216.69.00.20<br>7216.91.10.00<br>7216.91.90.10<br>7216.91.90.90<br>7216.99.00.10<br>7216.99.00.90 |
| iii | Pre-painted and Colour coated profile roofing sheet (tapeiozal) | MS 2500 : 2012 (With Profile) Sheets | G250, G280, G320, G350, G380, G550   | Roof/Cladding/ceiling panels/ wall paneling/roller shutter or roofing accessories and any other construction application<br><br>Thickness 0.15 to 0.6mm (most commonly used) | MS 2500 : 2012 - Clause 5.2<br><br>Sampling size 400mm x 400mm x 2 pcs | MS 2500 : 2012 - Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 4.3.5, 5.2  | MS 2500 : 2012 - Clause 4.2.1, 4.2.2, 4.2.3   | MS 2500 : 2012 - Clause 7.1  | 7216.91.90.90<br>7216.99.00.90  |

#### 4. Non Alloy Iron or Steel Wire

| No | Type of Construction Material | Approved Standard | Grade  | Description Application   | Verification Standards                  |                               |                                   |                               | Custom Hs Code PDK 2017                         |
|----|-------------------------------|-------------------|--|---------------------------|---|-------------------------------|-----------------------------------|-------------------------------|---|
|    |                               |                   |  |                           | Sampling                                | Testing (Full Type Test)      | Testing (Critical Test)           | Marking                       |   |
| i  | Wire for Prestressed Concrete | MS1138 - 2 : 2007 | Nominal Tensile Strength<br>1470 - (8mm),<br>1570 - (7.8mm),<br>1670 -<br>(4, 5, 6, 7mm),<br>1770 -<br>(3, 4, 5, 6mm),<br>1860 - (3mm) | Prestressed Concrete Wire | MS1138 - 2 : 2007<br>Clause 7.1 Table 1 | MS1138 - 2 : 2007<br>Clause 6 | MS1138 - 2 : 2007<br>Clause 6.2.1 | MS1138 - 2 : 2007<br>Clause 7 | 7217.10.22.00<br>7217.10.33.00<br>7217.90.90.00 |

#### 5. Stainless Steel Angle, Section and Shape

| No | Type of Construction Material                  | Approved Standard                             | Grade                           | Description Application                                  | Verification Standards             |                                  |                         |                                | Custom Hs Code PDK 2017        |
|----|--|---|---------------------------------|--|------------------------------------|----------------------------------|-------------------------|--------------------------------|--------------------------------|
|    |  |   |                                 |  | Sampling                           | Testing (Full Type Test)         | Testing (Critical Test) | Marking                        |                                |
| i  | Angles, shapes and sections of stainless steel | MS 2240 - 2 : 2009<br>ASTM A276<br>ASTM A1069 | Refer to Table 1 of MS 2240 - 2 | Corrosion-resistant stainless steel for general purposes | MS 2240 - 2 : 2009<br>Clause 8.3.2 | MS 2240 - 2 : 2009<br>Clause 8.4 |                         | MS 2240 - 2 : 2009<br>Clause 9 | 7222.40.10.00<br>7222.40.90.00 |

## 6. Alloy of Iron or Steel Plate and Sheet

| No  | Type of Construction Material   | Approved Standard      | Grade                         | Description Application         | Verification Standards              |  |                         |   | Custom Hs Code PDK 2017        |
|-----|---|------------------------|-------------------------------|---------------------------------|-------------------------------------|--|-------------------------|---|--------------------------------|
|     |   |                        |                               |                                 | Sampling                            | Testing (Full Type Test)   | Testing (Critical Test) | Marking   |                                |
| i   | Hot rolled alloy steel, strip, plate or sheet, in coil of a width 600mm or more (width ≥ 600mm)       | MS EN 10025 - 6 : 2011 | S460Q, QL, QL1 S550Q, QL, QL1 | For structures and fabrications | MS EN 10025 - 6 : 2011 Clause 8.3.1 | MS EN 10025 - 6 : 2011 Clause 7.2<br>Chemical composition Clause 7.3<br>Mechanical Properties Clause 7.7 Dimension |                         | MS EN 10025 - 6 : 2011 (Delivery Condition) Clause 11 | 7225.30.90.00                  |
| ii  | Hot rolled alloy steel, strip, plate or sheet, not in coil, of a width 600mm or more (width ≥ 600mm)  | MS EN 10025 - 6 : 2011 | S460Q, QL, QL1 S550Q, QL, QL1 |                                 |                                     | MS EN 10025 - 6 : 2011 Clause 7.2<br>Chemical composition Clause 7.3<br>Mechanical Properties Clause 7.7 Dimension |                         |   | 7225.40.90.00                  |
| iii | Hot rolled alloy steel, strip, plate or sheet, in coil, of a width less than 600mm (width < 600mm)    | MS EN 10025 - 6 : 2011 | S460Q, QL, QL1 S550Q, QL, QL1 | For structures and fabrications | MS EN 10025 - 6 : 2011 Clause 8.3.1 | MS EN 10025 - 6 : 2011 Clause 7.2<br>Chemical composition Clause 7.3<br>Mechanical Properties Clause 7.7 Dimension |                         | MS EN 10025 - 6 : 2011 (Delivery Condition) Clause 11 | 7226.91.10.00<br>7226.91.90.00 |
| iv  | Hot rolled alloy steel, strip, plate or sheet, not in coil of a width less than 600mm (width < 600mm) | MS EN 10025 - 6 : 2011 | S460Q, QL, QL1 S550Q, QL, QL1 |                                 | MS EN 10025 - 6 : 2011 Clause 8.3.1 | MS EN 10025 - 6 : 2011 Clause 7.2<br>Chemical composition Clause 7.3<br>Mechanical Properties Clause 7.7 Dimension |                         |   | 7226.91.90.90                  |

## 7. Alloy of Iron or Steel Bar

| No  | Type of Construction Material  | Approved Standard  | Grade                                 | Description Application  | Verification Standards                |  |   |                                | Custom Hs Code PDK 2017  |
|-----|--|--------------------|---------------------------------------|--|---------------------------------------|--|---|--------------------------------|--|
|     |  |                    |                                       |  | Sampling                              | Testing (Full Type Test)                                       | Testing (Critical Test)                         | Marking                        |  |
| i   | Deformed or ribbed alloy steel bar or rod in Coil for Reinforcement of Concrete (DBIC) | MS 146 : 2014      | B500A<br>B500B<br>B500C               | Deformed or ribbed for cut and bent (various shape and length), precast piles and structure, straighten bars, wire mesh and others construction purpose. | MS 146 : 2014 - Clause 8.1.2          | MS 146 : 2014 - Clause 7.1, 7.2, 7.3.3, 7.3.4, 7.3.5, 7.4, 7.5 | MS 146 : 2014 - Clause 7.1, 7.3.3, 7.3.5, 7.4.2 | MS 146 : 2014 - Clause 10 & 11 | 7227.90.00.00  |
| ii  | Silico-manganese alloy steel bar for prestressing concrete                             | MS 1138 - 3 : 2007 | Nominal Tensile Strength : 1420, 1570 | Prestressed Concrete Bar   | MS 1138 - 1 : 2007 Clause 7.1 Table 1 | MS 1138 - 3 : 2007 Clause 6                                    | MS 1138 - 3 : 2007 Clause 6.1 & 6.2             | MS 1138 - 2 : 2007 Clause 7    | 7227.20.00.00  |
| iii | Deformed or ribbed alloy steel bar not in Coil for Reinforcement of Concrete           | MS 146 : 2014      | B500A<br>B500B<br>B500C               | For cut and bent (various shape and length), precast piles and structure, straighten bars and others construction purpose                                | MS 146 : 2014 - Clause 8.1.2          | MS 146 : 2014 - Clause 7.1, 7.2, 7.3.3, 7.3.4, 7.3.5, 7.4, 7.5 | MS 146 : 2014 - Clause 7.1, 7.3.3, 7.3.5, 7.4.2 | MS 146 : 2014 - Clause 10 & 11 | 7228.30.10.00<br>7228.30.90.00<br>7228.50.10.00<br>7228.50.90.00 |



## 8. Alloy of Iron or Steel Angle, Section and Shape

| No | Type of Construction Material              | Approved Standard      | Grade                         | Description Application         | Verification Standards              |  |                         |   | Custom Hs Code PDK 2017        |
|----|--|------------------------|-------------------------------|---------------------------------|-------------------------------------|--|-------------------------|---|--------------------------------|
|    |  |                        |                               |                                 | Sampling                            | Testing (Full Type Test)   | Testing (Critical Test) | Marking   |                                |
| i  | Angles, shapes and sections of alloy steel | MS EN 10025 - 6 : 2011 | S460Q, QL, QL1 S550Q, QL, QL1 | For structures and fabrications | MS EN 10025 - 6 : 2011 Clause 8.3.1 | MS EN 10025 - 6 : 2011 Clause 7.2<br>Chemical composition Clause 7.3<br>Mechanical Properties Clause 7.7 Dimension |                         | MS EN 10025 - 6 : 2011 (Delivery Condition) Clause 11 | 7228.70.10.00<br>7228.70.90.00 |

## B. OTHER IRON OR STEEL PRODUCTS

### 1. Rail and Tramway Track of Iron or Steel

| No | Type of Construction Material                                     | Approved Standard                                 | Grade                                       | Description Application                               | Verification Standards  |  |                         |           | Custom Hs Code PDK 2017                         |
|----|---|---|---|---|---|--|-------------------------|-----------|---|
|    |   |   |   |   | Sampling  | Testing (Full Type Test)   | Testing (Critical Test) | Marking   |   |
| i  | Railway or tramway track, cross tie and sleepers of iron or steel | JIS E 1101<br>BS EN 13674 - 1:<br>2011 + A1: 2017 | 30A, 37A, 40N,<br>50N, 60, 50S,<br>70S, 80S | Rails & cross-ties. Calculated mass of more than 30kg | Clause 9-9.4<br>(d) Tensile test piece.<br><br>(e) Falling weight test piece<br><br>(f) Sulfur print test piece | Clause 9 -<br>9.5 Chemical analysis,<br>9.6 Tensile Test,<br>9.7 Hardness Test |                         | Clause 12 | 7302.10.00.00<br>7302.90.10.00<br>7302.90.90.00 |

### 2. Sheet Piling and Welded Angle, Section and Shape of Iron or Steel

| No | Type of Construction Material   | Approved Standard | Grade             | Description Application   | Verification Standards |  |  |   | Custom Hs Code PDK 2017 |               |
|----|---|-------------------|-------------------|---|------------------------|--|--|---|-------------------------|---------------|
|    |   |                   |                   |   | Sampling               | Testing (Full Type Test)                           | Testing (Critical Test)  | Marking   |                         |               |
| i  | Sheet piling, whether or not drilled, punched or made from assembled elements | 1                 | MS 2025 - 1: 2018 | S235JRC<br>S275JRC<br>S355J0C                                   | Cold formed sheet pile | MS 2025 - 1: 2006<br>Clause 8.3 - inspection units | Clause 7.3 - Chemical composition<br>Clause 7.4 - Mechanical properties<br>Clause 7.5 - Technological properties<br>Clause 7.6 - Surface properties<br>Clause 8.5 - Control of dimensional tolerances  | Clause 7.3 - Chemical composition<br>Clause 7.4 - Mechanical properties | Clause 9 : Marking      | 7301.10.00.00 |
|    |   | 2                 | MS 2674 - 1: 2017 | S240GP, S270GP,<br>S320GP, S355GP,<br>S390GP, S430GP,<br>S460GP | Hot rolled sheet pile  | Clause 8 - Inspection and testing                  | Clause 7.3 - Chemical composition<br>Clause 7.4 - Mechanical properties<br>Clause 7.5 - Technological properties<br>Clause 7.6 - Load bearing capacity<br>Clause 7.7 - Tolerances on dimensions and shape<br>Clause 7.8 - Minimum interference on interlocking<br>Clause 7.9 - Surface condition | Clause 7.3 - Chemical composition<br>Clause 7.4 - Mechanical properties | Clause 9 : Marking      |               |

### 3. Tubes and Pipes of Cast Iron

| No | Type of Construction Material                 | Approved Standard | Grade                       | Description Application   | Verification Standards                 |  |  |                      | Custom Hs Code PDK 2017  |  |
|----|---|-------------------|-----------------------------|---|--|--|--|----------------------|--|--|
|    |   |                   |                             |   | Sampling                               | Testing (Full Type Test)                                 | Testing (Critical Test)                  | Marking              |  |  |
| i  | Tubes, pipes and hollow profiles of cast iron | 1                 | MS1919 : 2013               | DN 40, 50, 60, 65, 80, 11, 125, 150, 200, 250, 300, 350, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400 | Ductile iron pipes for water pipelines | Clause 6.3.1 – Preparation of test bars (refer Table 13) | Clause 4.3, 4.4, 6.1, 6.2, 6.3, 6.4, 6.5 | Clause 4.3, 4.4      | Clause 4.7 – Manufacturer name, Year of manufacturer, Identification, DN, Reference Standard | 7303.00.11.00<br>7303.00.19.00<br>7303.00.91.00<br>7303.00.99.00 |
|    |   | 2                 | BS EN 598 : 2007 + A1: 2009 | Grade 500/7   | Ductile iron pipes for sewerage        |  | Clause 4.2, 4.3, 4.4, 4.6, 4.7, 5        | Clause 4.2, 4.3, 4.4 | Clause 4.6   |  |
|    |   | 3                 | ISO 6594 : 2006             |   | Cast iron drainage pipe                | Clause 9.2.4   |  |                      |  |  |

### 4. Tube and Pipe of Iron or Steel, Seamless

| No | Type of Construction Material  | Approved Standard | Grade  | Description Application   | Verification Standards  |   |  |   | Custom Hs Code PDK 2017  |   |
|----|--|-------------------|--|---|---|---|--|---|--|---|
|    |  |                   |  |   | Sampling  | Testing (Full Type Test)                                | Testing (Critical Test)  | Marking   |  |   |
| i  | Seamless Carbon Steel Pipes  | 1                 | MS ISO 3183 : 2012   | PSL1, PSL2 Refer Table 1  | Manufacturer shall be certified under API monogram eg.: Product use in oil and gas industry – steel pipe for pipeline transportation system | MS ISO 3183 : 2009 Clause 10.2 Table 17 & 18            | MS ISO 3183 : 2009 Clause 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.13, 9.14 Annex E | No weld seam (seamless) API Certificate for reference: Clause 9.2, 9.3, 9.5, 9.6, 9.7, 9.8, 9.9, 9.11, 9.13, 9.14   | MS ISO 3183 : 2009 Clause 11                                     | 7304.19.00.00<br>7304.23.10.00<br>7304.23.90.00<br>7304.29.10.00<br>7304.29.90.00 |
|    |  | 2                 | API 5L 45th Edition  | PSL1, SMLS, L245 or B PSL2 B, X42, X46, X52, X56, X60, X65, X70, X80                      |   | API 5L – Clause 10.2 Table 17 & 18                      | API 5L – Clause 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.13, 9.14, Annex E          | API 5L – Clause 9.2, 9.3, 9.5, 9.6, 9.7, 9.8, 9.9, 9.11, 9.13, 9.14   | API 5L – Clause 11   |   |
|    |  | 3                 | API 5CT 9th Edition  | J55, M65, N80 Type 1, N80Q, P110, Q125  | Casing and tubing of a kind used in drilling for oil or gas   | API 5CT – Clause 10.4.3 Table C37, C38 & C39            | API 5CT – Clause 10.3, 10.4, 10.5, 10.6, 10.7, 10.12, 10.13 & 10.13.5, 10.15                     | API 5CT – Clause 10.3, 10.4, 10.5, 10.6, 10.7, 10.13, & 10.13.5   | API 5CT – Clause 11 Table C4.6, C4.7 & C4.8                      |   |
| ii | Seamless and heavily cold ferritic and austenitic stainless steel pipes and tubes and other construction purpose (ex. Railing, balustrade, handrail etc) | MS1841 : 2010     | TP304H, TP309H, TP309HCb, TP310H, TP310HCb, TP316H, TP321H, TP347H, TP348H | Casing and tubing of a kind used in drilling for oil or gas: for construction application | MS 1841 : 2010 – Clause 8.0, 11.2, 11.3 & 11.4  | MS 1841 : 2010 – Clause 7.0, 8.0, 9.0, 10.0, 11.0, 12.0 |  | MS 1841 : 2010 – Clause 17. Manufacturer's name or trade mark, specification number/standard no, Welding, Size, Schedule/ thickness, length, Material grade, Heat no, Product certification no & product origin | 7304.22.10.00<br>7304.22.90.00<br>7304.24.10.00<br>7304.24.90.00 |   |

## 5. Tubes and Pipes of Iron or Steel, Welded

| No | Type of Construction Material  | Approved Standard | Grade  | Description Application  | Verification Standards   |  |   |   | Custom Hs Code PDK 2017                                   |  |  |
|----|--|-------------------|--|--|--|--|---|---|---|--|--|
|    |  |                   |  |  | Sampling   | Testing (Full Type Test)                                   | Testing (Critical Test)   | Marking   |   |  |  |
| i  | Welded Carbon Steel Pipes & Tubes (inclusive of square and rectangular hollow section) | 1                 | MS61386 - 21: 2010                             | (Class 3)  | For conduit pipe (mm) or for conduit pipe (inch)                                 | MS IEC 60423 : 2002 Clause 5.0                             | MS61386 - 21: 2010 & MS IEC 60423 : 2002  | MS61386 - 21 : 2010 & MS IEC 60423 : 2002   | MS61386 - 21 : 2010 & Clause 7.0                          | 7306.30.91.00<br>7306.30.92.00<br>7306.30.99.00<br>7306.61.10.00   |  |
|    |  | 2                 | MS 863 : 2010                                  | S195T  | For water and light structures   | MS 863 : 2010 Clause 8.4.10 - 1 std. length per order item | MS 863 : 2010 - Longitudinally Welded : 8.2, 8.3, 8.4, 9.4, 9.5, 9.6, 7.4   | MS 863 Longitudinally Welded : 8.2, 8.4, 9.4, 9.5, 7.4  | MS 863 : 2010 - Clause 10                                 | 7306.61.90.00<br>7306.69.10.00<br>7306.69.90.00<br>7306.90.99.00   |  |
|    |  | 3                 | MS 1862 : 2005                                 | STKM 11A, STKM 12A, 12B, 12C, STKM 13A, 13B, 13C, STKM 14A, 14B, 14C, STKM 15A, 15C, STKM 16A, 16C | For machine structural   | Follow CIDB  | MS 1862 : 2005 - Clause 3, 4, 5.2, 9.3, 9.4, 6, 7   | MS 1862 : 2005 - Clause 3, 4, 5.2, 9.3, 9.4, 6  | MS 1862 : 2005 - Clause 11                                |  |  |
|    |  | 4                 | MS EN 10219 - 1: 2015<br>MS EN 10219 - 2: 2015 | S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H   | Cold formed welded structural hollow sections of non-alloy and fine grain steels | MS EN 10219 - 1: 2015 - Clause 8.1                         | MS EN 10219 - 1: 2015 (a) Electric Welded : 6.6, 6.7, 6.7.2, 6.9, 6.10, 6.11 (b) Submerged arc weld: 6.6, 6.7, 6.7.2, 6.9, 6.10, 6.11 | MS EN 10219 - 1: 2015 (a) Electric Welded : 6.6, 6.7, 6.7.2, 6.11 (b) Submerged arc weld: 6.6, 6.7, 6.7.2, 6.11 | MS EN 10219 - 1: 2015 - Clause 10                         |  |  |
|    |  | 5                 | MS EN 10210 - 1: 2017<br>MS EN 10210 - 2: 2017 | S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H   | Hot finished structural hollow sections of non-alloy and fine grain steels       | MS EN 10210 - 1: 2017 Clause 8.1                           | Clause 6.5, 6.6, 6.7, 6.8, 6.9, 6.10  | Clause 6.5, 6.6, 6.10   | MS EN 10210 - 1: 2017 & MS EN 10210 - 2: 2017 - Clause 10 |  |  |
|    |  | 6                 | JIS G3444 : 2015                               | STK 290, STK 400, STK 490, STK 500, STK 540  | Carbon Steel Tubes for General Structure   | JIS G3444 : 2015 Clause 9.2.2                              | JIS G3444 : 2015 Clause 5, 6, 7 & 8   | JIS G3444 : 2015 Clause 5, 6 & 7  | JIS G3444 : 2015 Clause 11                                |  |  |
| ii | Welded Pipes   | 1                 | SPAN TS21827 - 2: 2013                         | L235, L275, L355   | For water conveyance pipe  | SPAN TS21827 - 1: 2013 - Clause 8.3                        | SPAN TS21827 - 2: 2013 - Clause 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8   | SPAN TS21827 - 2: 2013 - Clause 7.2, 7.3  | SPAN TS21827 - 2: 2013 - Clause 12                        | 7305.19.10.00<br>7305.19.90.00<br>7305.39.10.00<br>7305.39.90.00<br>7305.90.00.00  |  |
|    |  | 2                 |  |  |  | SPAN TS21827 - 2: 2013 - Clause 9                          | SPAN TS21827 - 2: 2013 - Clause 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8   | SPAN TS21827 - 2: 2013 - Clause 7.2, 7.3  | SPAN TS21827 - 2: 2013 - Clause 12                        | 7306.90.99.00<br>7306.30.91.00<br>7306.30.99.00  |  |
|    |  | 3                 | API 5L 45th Edition                            | PSL1 SMLS L245 or B PSL2 B, X42, X46, X52, X56, X60, X65, X70, X80                                 | For lined pipes use in oil and gas industry                                      | API 5L 45th Edition - Clause 10.2 Table 17 & 18            | API 5L 45th Edition - Clause 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.13, 9.14, Annex E                                  | API 5L 45th Edition - Clause 9.2, 9.3, 9.5, 9.6, 9.7, 9.8, 9.9, 9.11, 9.13, 9.14,                               | API 5L 45th Edition - Clause 11                           | 7305.11.00.00<br>7305.12.10.00<br>7305.20.00.00<br>7305.31.90.00<br>7305.39.90.00<br>7305.90.90.00<br>7306.19.10.00<br>7306.19.20.00<br>7306.30.91.00<br>7306.30.99.00 |  |

| No  | Type of Construction Material  | Approved Standard                                  | Grade   | Description Application   | Verification Standards                                      |   |   |  | Custom Hs Code PDK 2017  |  |
|-----|--|--|---|---|---|---|---|--|--|--|
|     |  |  |   |   | Sampling  | Testing (Full Type Test)  | Testing (Critical Test)   | Marking  |  |  |
|     |  | 4  | API 5CT 9th Edition                                   | J55, M65, N80 Type 1, N80Q, P110, Q125  | Casing and tubing of a kind used in drilling for oil or gas | API 5CT 9th Edition - Clause 10.4.3 Table C37, C38 & C39            | API 5CT 9th Edition - Clause 10.3, 10.4, 10.5, 10.6, 10.7, 10.12, 10.13, & 10.13.5, 10.15 | API 5CT 9th Edition - Clause 10.3, 10.4, 10.5, 10.6, 10.7, 10.13, & 10.13.5  | API 5CT 9th Edition - Clause 11 Table C4.6, C4.7, C4.8           | 7305.11.00.00<br>7305.12.10.00<br>7305.12.90.00<br>7305.19.10.00<br>7305.19.90.00<br>7305.20.00.00<br>7306.11.10.00<br>7306.11.20.00<br>7306.11.90.00<br>7306.19.10.00<br>7306.19.20.00<br>7306.19.90.00<br>7306.29.00.00<br>7306.30.11.00 |
|     |  | 5  | MS ISO 3183 : 2009                                    | PSL1<br>PSL2 (Table 1)  | For lined pipes use in oil and gas industry                 | MS ISO 3183 : 2009 Clause 10.2 Table 17 & 18                        | MS ISO 3183 : 2009 Clause 9.2, 9.3, 9.4, 9.5, 9.6, 9.8, 9.9, 9.10, 9.11, 9.13, 9.14       | MS ISO 3183 : 2009 Clause 9.2, 9.3, 9.5, 9.6, 9.8, 9.9, 9.11, 9.13, 9.14   | MS ISO 3183 : 2009 Clause 11                                     | 7305.19.10.00<br>7305.20.00.00<br>7306.11.10.00<br>7306.11.20.00<br>7306.11.90.00<br>7306.19.10.00<br>7306.19.20.00<br>7306.19.90.00<br>7306.29.00.00<br>7306.30.11.00   |
|     |  | 6  | MS 2381 : 2011  | Grade A & Grade B<br>PSL1 - L175 or A25   | Ordinary use in steam, water, gas and air line              | MS 2381 : 2011 - Clause 13  | MS 2381 : 2011 - 5, 6, 7, 8, 9, 10, 11, 12  | MS 2381 : 2011 - 5, 6, 7, 10   | MS 2381 : 2011 - Clause 21                                       | 7305.31.90.00<br>7305.39.90.00<br>7306.30.91.00<br>7306.30.92.00<br>7306.30.99.00  |
|     |  | 7  | MS 2376 : 2011  | Grade A & Grade B   | ERW welded steel pipe                                       | MS 2376 : 2011 - Clause 15  | MS 2376 : 2011 - Clause 6, 8, 9, 10 or 11, 12, 13   | MS 2376 : 2011 - Clause 6, 8, 9, 12  | MS 2376 : 2011 - Clause 21                                       | 7306.21.00.00<br>7306.40.20.00<br>7306.40.30.00<br>7306.40.90.00   |
|     |  | 8  | MS862 : 2012  |   | For pressure usage purpose                                  | MS862 : 2010 - Clause 10  | MS862 : 2010 8.2, 8.3, 8.4, 8.5, 8.7  | MS862 : 2010 8.2, 8.3, 8.4, 8.5, 8.7   | MS862 : 2010 - Clause 12   | 7306.40.20.00<br>7306.40.30.00<br>7306.40.90.00  |
| iii | Welded Stainless steel tubes for the conveyance of water and other aqueous liquids - Technical Delivery Conditions | MS1988 : 2007 (Confirmed 2011)                     | TP304, TP309, TP309HCb, TP310, TP310HCb, TP316, TP321 | Welded stainless steel tube for the conveyance of water and other aqueous liquids           | MS1988 : 2007 - Clause 10                                   | MS1988 : 2007 - Clause 8.2, 11.1, 11.2, 11.3, 11.4, 11.6 & 11.7     |   | MS1988 : 2007 - Clause 13. Manufacturer's name or trade mark, specification number/standard no, steel name or number/grade, dimensions, heat number/lot number & product origin    | 7306.21.00.00<br>7306.40.20.00<br>7306.40.30.00<br>7306.40.90.00 |  |
| iv  | Welded Tube only for Scaffolding   | MS 1462-2-1: 2010<br>EN 39 : 2001<br>CIS 22 : 2017 | S235GT  | For use with EN 74 couplers in the construction of falsework and working scaffolds          | MS 1462-2-1: 2010, Clause 9                                 | MS 1462-2-1: 2010, Clause 7.2, 7.6, 13                              |   | MS 1462-2-1: 2010, Clause 12, Marking & CIS 22 : 2017 Clause 5.2.4 Product Marking   | 7306.30.91.00<br>7306.30.92.00<br>7306.30.99.00                  |  |
| v   | Light gauge stainless steel welded tube for ordinary piping  | JIS G 3448 : 2012                                  | SUS304TPD, SUS315JITPD, SUS315J2TPD, SUS316TPD        | Other, welded, of circular cross-section, of stainless steel for other construction purpose | JIS G 3448 : 2012 - Clause 11.1 (Table 6)                   | JIS G 3448 : 2012 - Clause 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8 |   | JIS G 3448 : 2012 - Clause 13 Manufacturer's name or trade mark, Specification number/standard no, Steel name or number/grade, dimensions, Heat number/lot number & product origin | 7306.40.20.00<br>7306.40.30.00<br>7306.40.90.00                  |  |

| No  | Type of Construction Material   | Approved Standard | Grade   | Description Application  | Verification Standards                         |   |   |  | Custom Hs Code PDK 2017 |
|-----|---|-------------------|---|--|--|---|---|--|-------------------------|
|     |   |                   |   |  | Sampling                                       | Testing (Full Type Test)                                  | Testing (Critical Test)   | Marking  |                         |
| vi  | Welded and heavily cold ferritic and austenitic stainless steel pipes for oil & gas purpose.  | MS 1841 : 2010    | TP304H, TP309H, TP309BCb, TP310H, TP310HCb, TP316H, TP321H, TP347H, TP348H  | Casing and tubing of a kind used in drilling for oil or gas:<br><br>For construction application | MS 1841 : 2010 - Clause 8.0, 11.2, 11.3 & 11.4 | MS 1841 : 2010 - Clause 7.0, 8.0, 9.0, 10.0, 11.0, & 12.0 | MS 1841 : 2010 - Clause 17.<br>Manufacturer's name or trade mark, Specification number/standard no, Welding, Size, Schedule/thickness<br>Length, Material grade, Heat no, Product certification no & Product origin | 7306.11.10.00<br>7306.11.20.00<br>7306.11.90.00<br>7306.40.20.00<br>7306.40.30.00<br>7306.40.90.00<br>7306.21.00.00<br>7306.29.00.00 |                         |
| vii | Welded and heavily cold ferritic and austenitic stainless steel pipes and tubes and other construction purpose (ex. Railing, balustrade, handrail, etc) | ASTM A554         | MT 301, MT 302, MT 304, MT 304L, MT 306, MT 309S, MT 309S-Cb, MT 310S, MT 316, MT 316L, MT 330, MT 347, MT 434, 436, 439, 444, 410S | Other, welded, of circular cross-section, of stainless steel for other construction purpose      | ASTM A554 - Clause 8.0, 9.0 & 10.0             | ASTM A554 - Clause 8.0, 9.0, 10.0 & 11.0                  | ASTM A554 - Clause 15<br>Manufacturer's name or trade mark, specification number/standard no, Steel name or number/grade, Dimensions & Product origin.  | 7306.40.20.00<br>7306.40.30.00<br>7306.40.90.00  |                         |

## 6. Tubes and Pipe Fitting of Iron or Steel

| No | Type of Construction Material | Approved Standard       | Grade            | Description Application   | Verification Standards             |  |  |                                   | Custom Hs Code PDK 2017  |
|----|-------------------------------|-------------------------|------------------|---------------------------|------------------------------------|--|--|-----------------------------------|--|
|    |                               |                         |                  |                           | Sampling                           | Testing (Full Type Test)   | Testing (Critical Test)                  | Marking                           |  |
| i  | Tubes and pipe fitting        | 1 SPAN TS21827-2 : 2013 | L235, L275, L355 | For water conveyance pipe | SPAN TS21827-2 : 2013 - Clause 8.3 | SPAN TS21827-2 : 2013 - Clause 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8 | SPAN TS21827-2 : 2013 - Clause 7.2, 7.3, | SPAN TS21827-2 : 2013 - Clause 12 | 7307.21.10.00<br>7307.21.90.00<br>7307.22.10.00<br>7307.22.90.00<br>7307.23.10.00<br>7307.23.90.00<br>7307.29.10.00<br>7307.29.90.00<br>7307.91.10.00<br>7307.91.90.00<br>7307.92.10.00<br>7307.92.90.00<br>7307.93.10.00<br>7307.93.90.00<br>7307.99.10.00<br>7307.99.90.00 |

## 7. Structures and Part of Structure of Iron or Steel

| No  | Type of Construction Material                               | Approved Standard                                  | Grade  | Description Application  | Verification Standards              |  |                         |   | Custom Hs Code PDK 2017  |
|-----|---|--|--|--|-------------------------------------|--|-------------------------|---|--|
|     |   |  |  |  | Sampling                            | Testing (Full Type Test)   | Testing (Critical Test) | Marking   |  |
| i   | Bridges and bridge sections.                                | MS EN 10025-2 : 2011 (Testing for raw materials)   | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0 | Structures and parts of structures (for example, bridges and bridge-sections)  | MS EN 10025-2 : 2011 - Clause 8.3.1 | MS EN 10025-2 : 2011 - Clause 7.2<br>Chemical composition<br>Clause 7.3 Mechanical Properties<br>Clause 7.7 Dimension            |                         | MS EN 10025-2 : 2011 - Clause 11  | 7308.10.10.00<br>7308.10.90.00                                   |
| ii  | Towers and lattice masts                                    | MS EN 10025-2 : 2011 (Testing for raw materials)   | S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0 | Structures and parts of structures (for example, tower and masts)  | MS EN 10025-2 : 2011 - Clause 8.3.1 | MS EN 10025-2 : 2011 - Clause 7.2<br>Chemical composition<br>Clause 7.3 Mechanical Properties<br>Clause 7.7 Dimension            |                         | MS EN 10025-2 : 2011 - Clause 11  | 7308.20.11.00<br>7308.20.19.00<br>7308.20.21.00<br>7308.20.29.00 |
| iii | Frame type scaffolding and accessories                      | MS 1462-1: 2012<br>CIS 22 : 2017                   | Refer to Table 2, MS 1462-1 : 2012   | Steel frame working scaffoldings used as temporary structures  | MS 1462-1: 2012<br>Clause 6         | MS 1462-1 : 2012<br>Clause 6.1 : System performance test<br>Clause 6.2 Load test on the components of a frame scaffolding system |                         | MS 1462-1: 2012<br>CIS 22 : 2017<br>Clause 5.2.4<br>Product Marking                       | 7308.40.10.00<br>7308.40.90.00                                   |
| iv  | Tubular type scaffolding and accessories                    | MS 1462-2-1: 2010<br>EN 39 : 2001<br>CIS 22 : 2017 | S235GT   | For use with EN 74 couplers in the construction of falsework and working scaffoldings  | MS 1462-2-1: 2010,<br>Clause 9      | MS 1462-2-1 : 2010<br>Clause 7.2, 7.6, 13  |                         | MS 1462-2-1: 2010<br>Clause 12 Marking & CIS 22 : 2017<br>Clause 5.2.4<br>Product Marking | 7308.40.90.00  |
| v   | Couplers, fitting and other accessories for scaffolding     | 1  | MS 1462-2-3 : 2011<br>CIS 22 : 2017  | Class A, B, AA, BB<br>For use in scaffolds and falsework for connecting 48, 3mm outside diameter steel and aluminium tubes;<br><br>Right angle, Swivel, Parallel, & Sleeve coupler                       | MS 1462-2-3 : 2011<br>- Table 8     | MS 1462-2-3 : 2011 -<br>Table 9  |                         | MS 1462-2-3 : 2011<br>Clause 9 Marking & CIS 22 : 2017<br>Clause 5.2.4<br>Product Marking | 7308.40.90.00  |
|     |   | 2  | AS NZS 1576.2 : 2009   | For connecting a metal scaffold tube to parallel flange or tapered flange beams;<br><br>Flange clamp (Beam clamp)  | 250 MT/6 sample                     | AS NZS 1576.2 : 2009 -<br>Appendix L,<br>Appendix M,<br>Appendix N   |                         | AS NZS 1576.2 : 2009 -<br>Section 1.5   | 7308.40.90.00  |
|     |   | 3  | BS 1139 - 2.2 : 2009<br>+ A1 : 2015  | For use in scaffolds and falsework constructed with steel scaffold tubes conforming to MS 1462-2-1, Type 3 or Type 4, or aluminium scaffold tubes conforming to MS 1462-2-2.<br><br>Steel Putlog Coupler | 250 MT/6 sample                     | BS 1139-2.2 : 2009 +<br>A1 : 2015 -<br>Clause 7.1, 7.2, Annex A  |                         | BS 1139-2.2 : 2009<br>+ A1 : 2015 -<br>Clause 14 Marking                                  | 7308.40.90.00  |
| vi  | Steel modular system scaffolding and accessories            | MS 1462-3-1: 2011<br>CIS 22 : 2017                 |  | For steel and aluminium modular system scaffolding   | Every 250 MT/set                    | MS 1462-3-1: 2011<br>Clause 7.3, 8.1, 8.2, 8.3,<br>8.4, 8.5, 8.6, 8.7  |                         | MS 1462-3-1: 2011<br>Clause 10 Marking & CIS 22 : 2017<br>Clause 5.2.4<br>Product Marking | 7308.40.10.00<br>7308.40.90.00                                   |
| vii | Mobile access and working tower scaffolding and accessories | BS EN 1004 : 2004                                  |  | For mobile access and working towers   | Every 250 MT/set                    | BS EN 1004 : 2004 -<br>Clause 6.0, 7.2, 7.3, 7.4,<br>7.5, 7.6, 8.2, 8.3, 8.4 &<br>Annex A  |                         | BS EN 1004 : 2004<br>Clause 10 Marking  | 7308.40.90.00  |

| No   | Type of Construction Material                             | Approved Standard                                | Grade  | Description Application   | Verification Standards            |  |                         |                                       | Custom Hs Code PDK 2017 |
|------|---|--|--|---|-----------------------------------|--|-------------------------|---------------------------------------|-------------------------|
|      |   |  |  |   | Sampling                          | Testing (Full Type Test)   | Testing (Critical Test) | Marking                               |                         |
| viii | Telescopic Steel Prop                                     | MS EN 1065 : 2011                                | A25, A30, A35, A40, B25, B30, B35, B40, B45, B50, B55, C25, C23, C35, C40, C45, C50, C55, D25, D30, D35, D40, D45, D50, D55, E25, E30, E35, E40, E45, E50, E55 | For temporary supporting permanent structure, formwork reinforcement support, floor & slab support at construction site | MS EN 1065 : 2011 - Clause 10.1.1 | MS EN 1065 : 2011 - Clause 9.3, 10.3 & 10.4  |                         | MS EN 1065 : 2011 - Clause 12 Marking | 7308.40.90.00           |
| ix   | Fabricated structure for building                         | MS EN 10025-2 : 2011 (Testing for raw materials) | S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2   | Structures and parts of structures (for example, building structures)   | MS EN 10025-2 : 2011 Clause 8.3.1 | MS EN 10025-2 : 2011 Clause 7.2 Chemical compositions<br>Clause 7.3 Mechanical Properties<br>Clause 7.7 Dimension                      |                         |                                       | 7308.90.99.00           |
| x    | Road Guardrail  | AASHTO M-180 : 2012                              | Class A, Class B, Type I, Type II, Type III, Type IV   | Corrugated sheet metal prepared for use as beam in highway guardrail  | Clause 5.2.1                      | Clause 6 - Materials, Clause 8.1.1 Mechanical Properties<br>Clause 9 - Coating   |                         | Clause 11 - Marking                   | 7308.90.92.00           |
| xi   | Suspension System for Acoustical and Lay-in Panel Ceiling | ASTM C635/C635M - 2013a                          | Light Duty, Intermediate Duty, Heavy Duty  | Metal ceiling suspension systems used primarily to support acoustical tile or acoustical lay-in panels                  | Every 250MT/set                   | ASTM C635/C635M - 2013a<br>Clause 5 - Dimensional<br>Clause 6 - Coating and finishes<br>Clause 12 & 13 - Suspension system performance |                         |                                       | 7308.90.99.00           |

## 8. Stranded Wire, Rope and Cable of Iron or Steel

| No  | Type of Construction Material              | Approved Standard  | Grade                  | Description Application    | Verification Standards                |   |                                      |                                 | Custom Hs Code PDK 2017   |
|-----|--|--------------------|------------------------|----------------------------|---------------------------------------|---|--------------------------------------|---------------------------------|---|
|     |  |                    |                        |                            | Sampling                              | Testing (Full Type Test)                  | Testing (Critical Test)              | Marking                         |   |
| i   | Stranded steel wire for prestress concrete | MS 1138-4 : 2007   | Type - 7 wire ordinary | PC Strand                  | MS 1138-1 : 2007 - Clause 7.1 Table 1 | MS 1138-4 : 2007 - Clause 6, 8.2          | MS 1138-4 : 2007 - Clause 6.1, 6.2   | MS 1138-4 : 2007 - Clause 7     | 7312.10.91.00   |
| ii  | Steel wire ropes - for lift                | MS ISO 4344 : 2004 | 1570, 1770, 1960       | Steel wire ropes - lift    | MS ISO 4344 : 2004 - Clause 5.4.2     | MS ISO 4344 : 2004 - Clause 4.1, 4.4, 4.5 | MS ISO 4344 : 2004 - Clause 4.4, 4.5 | MS ISO 4344 : 2004 - Clause 6.3 | 7312.10.99.00<br>7312.90.00.00  |
| iii | Steel wire ropes - for general use         | MS ISO 2408 : 2004 | 1570, 1770, 1960, 2160 | Steel wire ropes - general | MS ISO 2408 : 2004 Annex B            | MS ISO 2408 : 2004 - Clause 4.4, 4.5      | MS ISO 2408 : 2004 - Clause 4.5      | MS ISO 2408 : 2004 - Clause 6.2 | 7312.10.10.00<br>7312.10.20.00<br>7312.10.91.00<br>7312.10.99.00<br>7312.90.00.00 |



## 9. Cloth, Grill, Netting and Fencing of Iron or Steel Wire

| No | Type of Construction Material  | Approved Standard | Grade               | Description Application   | Verification Standards       |                                      |                                 |                                | Custom Hs Code PDK 2017  |
|----|--|-------------------|---------------------|---|------------------------------|--------------------------------------|---------------------------------|--------------------------------|--|
|    |  |                   |                     |   | Sampling                     | Testing (Full Type Test)             | Testing (Critical Test)         | Marking                        |  |
| i  | Grill, netting, mesh, fencing and fabric of wire whether or not welded at the intersection | MS 145 : 2014     | B500A, B500B, B500C | Steel fabric, mesh for fencing and steel wire mesh for other construction purpose | MS 145 : 2014 – Clause 8.1.2 | MS 145 : 2014 – Clause 7.1, 7.2, 7.3 | MS 145 : 2014 – Clause 7.2, 7.3 | MS 145 : 2014 – Clause 10 & 11 | 7314.20.00.00<br>7314.31.00.00<br>7314.39.00.00<br>7314.41.00.00<br>7314.42.00.00<br>7314.49.00.00 |

## 10. Articles of Cast Iron

| No | Type of Construction Material                        | Approved Standard | Grade                             | Description Application                           | Verification Standards   |  |                         |  | Custom Hs Code PDK 2017 |
|----|--|-------------------|-----------------------------------|---|--|--|-------------------------|--|-------------------------|
|    |  |                   |                                   |   | Sampling   | Testing (Full Type Test)                   | Testing (Critical Test) | Marking  |                         |
| i  | Manhole cover and grating of non-malleable cast iron | BS EN 124 : 2015  | A15, B125, C250, D400, E600, F900 | Manhole covers for vehicular and pedestrian areas | Clause 8.2.4 – test specimens and shall comply to clauses 6, 7, 8, and 9 | Clause 8 – 8.1 Test loads refer to table 6 |                         | Clause 9 –<br>i. Standard<br>ii. Class<br>iii. Identification mark | 7325.10.20.00           |

## 11. Other Articles of Iron or steel

| No | Type of Construction Material                      | Approved Standard                    | Grade                              | Description Application   | Verification Standards   |  |   |                             | Custom Hs Code PDK 2017 |
|----|--|--------------------------------------|------------------------------------|---|--|--|---|-----------------------------|-------------------------|
|    |  |                                      |                                    |   | Sampling   | Testing (Full Type Test)   | Testing (Critical Test)                     | Marking                     |                         |
| i  | Pre-painted and colour coated profile roofing tile | MS 2500 : 2012 (With Profile) Sheets | G250, G280, G320, G350, G380, G550 | Roof/cladding/ceiling panels /wall paneling/roller shutter or roofing accessories and any other construction application.<br><br>Thickness 0.15 to 0.6mm (most commonly used) | MS 2500 : 2012 – Clause 5.2<br><br>Sampling size 400mm x 400x 2pcs | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3, 4.3.3.2, 4.3.5, 5.2 | MS 2500 : 2012 – Clause 4.2.1, 4.2.2, 4.2.3 | MS 2500 : 2012 – Clause 7.1 |                         |

## C. ALUMINIUM PRODUCTS

### 1. Aluminium Bar Rod and Profile

| No | Type of Construction Material                                     | Approved Standard | Grade   | Description Application   | Verification Standards  |  |  |   | Custom Hs Code PDK 2017                         |
|----|---|-------------------|---|---|---|--|--|---|---|
|    |   |                   |   |   | Sampling  | Testing (Full Type Test)   | Testing (Critical Test)                      | Marking   |   |
| i  | Aluminium and aluminium alloy-extruded shapes and hollow profiles | MS 2289 : 2010    | Alloy Grade 6005A, 6060, 6061, 6063, 6082, 6101 | External or internal building facade, roof, cladding, ceiling strips, wall panelling, gutter, door & window frame & any other construction applications | <p>Clause 8:<br/>i. For the shapes weighing 3 kg or less per 1 m, one test piece for each 1,000 kg</p> <p>ii. For the shapes weighing more than 3 kg per 1 m, one test piece for each 2,000 kg</p> <p>Clause 7.2 :<br/>A4 sized x 5 pcs</p> | Clause 7 : Chemical Composition;<br>Mechanical Properties;<br>Sectional Dimensions | Clause 7 : Alloy Composition<br>Tensile test | Clause 9 : Alloy type and temper, Profile identification, length and weight, Manufacturer number of year and month of manufacture, Name of manufacturer | 7604.21.90.00<br>7604.29.10.00<br>7604.29.90.00 |

### 2. Aluminium Plates, Sheets and Strips of a Thickness Exceeding 0.2mm

| No  | Type of Construction Material   | Approved Standard   | Grade  | Description Application  | Verification Standards  |  |  |   | Custom Hs Code PDK 2017  |
|-----|---|---|--|--|---|--|--|---|--|
|     |   |   |  |  | Sampling  | Testing (Full Type Test)   | Testing (Critical Test)  | Marking   |  |
| i   | Aluminium plates, sheets and strip of a thickness exceeding 0.2mm, whether or not alloyed | MS 2040 : 2017  | Alloy Grade 1050, 1060, 1070, 1100, 1200, 3003, 3004, 3005, 3104, 3105, 5005, 5052, 5083, 5182, 5454, 6061, 7075, 8011, 8021, 8079, 5251 | External or internal building facade, roof, cladding, ceiling strips, wall panelling, gutter & any other construction applications | <p>Clause 8<br/>300 x 250 mm – tensile test,<br/>A4 size x 2 pcs<br/>Dimension : coil at least 2 m length<br/>sheet : actual size</p> | <p>Clause 7 : Chemical composition;<br/>Mechanical properties;<br/>Clause 6 : Dimension and tolerances; skin material of clad sheet</p>                      | <p>Clause 7 : Chemical Composition;<br/>Mechanical Properties;<br/>Clause 6 : thickness; size tolerances</p> | <p>Clause 9 : Type &amp; grade, Dimension &amp; weight, Lot no. &amp; batch no, Year &amp; month of manuf. Manufacturer's name, Country of origin</p> | 7606.11.10.00<br>7606.11.90.00<br>7606.12.35.00<br>7606.12.90.00<br>7606.91.00.00<br>7606.92.00.00 |
| ii  | Aluminium composite panel for exterior and interior wall                                  | MS 2571 : 2017  | Alloy Grade 3003, 3105, 5005   | External or internal building facade, roof, cladding, ceiling strips, wall panelling, gutter & any other construction applications | A4 sized x 5 pcs  | As per Clause 7, including; Material (skin), Coating, Dimension Deviation, Thickness of aluminium material and coating, Performance - see table 4(a) & 4(b)  | <p>Clause 7 : Thickness, Thickness of aluminium material, Coating film thickness, Peeling Strength</p>       | <p>Clause 8.1 : Marking<br/>Clause 8.1.1 : Marking On Product<br/>Clause 8.12 : Marking on Packing Box</p>  | 7606.12.90.00<br>7606.92.00.00   |
| iii | Aluminium and aluminium alloy-coil coated sheet and strips for general applications       | <p>MS EN 1396 : 2012 (P)</p> <p>MS EN 1396 : 2017 (Pending gazette)</p> | Alloy Grade 1050A, 1200, 3003, 3103, 3004, 3005, 3104, 3105, 5005, 5006, 5010, 5050, 5251, 5052, 5754, 5182, 6011, 6025, 8011A           | External or internal building facade roof, cladding, ceiling strips, wall panelling, gutter & any other construction applications  | A4 sized x 5 pcs  | <p>Clause 4 : Chemical Composition, Clause 5 : Mechanical Properties, Tolerance on shape<br/>Clause 5 Table 2 : dimension, Clause 6 : Coating Properties</p> | <p>Clause 4 : Chemical Composition, Clause 5 : Mechanical Properties, Clause 6 : Coating Properties</p>      | <p>Clause 8 : Name or mark of manufacturer, alloy &amp; temper, coating information, order no., order dimension, product batch no., &amp; mass</p>    | 7606.12.35.00<br>7606.12.90.00<br>7606.91.00.00<br>7606.92.00.00                                   |

### 3. Aluminium Foil of a Thickness not Exceeding 0.2 mm

| No | Type of Construction Material  | Approved Standard | Grade   | Description Application   | Verification Standards                           |  |  |   | Custom Hs Code PDK 2017        |
|----|--|-------------------|---|---|--|--|--|---|--------------------------------|
|    |  |                   |   |   | Sampling   | Testing (Full Type Test)   | Testing (Critical Test)  | Marking   |                                |
| i  | Aluminium foils of a thickness not exceeding 0.2 mm, not backed  | MS 1848 : 2005    | Alloy Grade 1100, 3003, 3004, 8011, 8021, 8079,   | External or internal building facade and roof, insulation materials & any other construction applications | A4 size x 2 pcs<br>Dimension : coil at least 2 m | Clause 4.2 : Chemical Composition,<br>Clause 5.2 : Dimensional Tolerances,<br>Clause 7 : Inspection on appearance and dimension  |  | Clause 9 : Type & grade, Dimension & weight, Lot no. & batch no, Year & month of manuf. Manufacturer's name, Country of origin  | 7607.11.00.00<br>7607.19.00.00 |
| ii | Thermal insulation aluminium foil (aluminium laminated with plastic)<br>Chapter 3921.90 (depend on type of plastics) | MS 2095 : 2014    | Aluminium Alloy Grade 1100, 3003, 3004, 8011, 8021, 8079, Or other material such as woven, film, foam and bubble pack | Thermal insulation foil   | Actual width x 8m x 1 pc                         | Clause 4(a) Resistance to dry delamination<br>Clause 4(b) Resistance to wet delamination<br>Clause 4(c) Shrinkage<br>Clause 4(d) Folding endurance<br>Clause 5.1.2 Tensile Strength<br>Clause 5.1.3 Edge tear resistance<br>Clause 5.2 Vapour barrier<br>Clause 5.3 Emittance<br>Clause 5.4 Water barrier<br>Clause 5.5 Fire resistance<br>Clause 5.6 Absorbency | Clause 5.1.2 Tensile Strength<br>Clause 5.1.3 Edge tear resistance<br>Clause 5.4 Water barrier | Clause 7.1 Marking Brand, Std number, product type/ name, product description, prod cert mark, manufacturer, country of origin.<br><br>Clause 7.2 Roll labelling Brand, Std number, product type/name, product description , product cert mark, manufacturer, country of origin, duty, dimension, vapour barrier, emittance, thermal resistance, fire classification, absorbency. | 7607.20.10.00                  |

#### 4. Aluminium Structures and Parts of Structure; Door, Windows and Their Frames and Threshold for Doors

| No | Type of Construction Material   | Approved Standard                                       | Grade   | Description Application   | Verification Standards  |   |   |   | Custom Hs Code PDK 2017        |
|----|---|---|---|---|---|---|---|---|--------------------------------|
|    |   |   |   |   | Sampling  | Testing (Full Type Test)  | Testing (Critical Test)                                 | Marking   |                                |
| i  | Aluminium structures and parts of structures; Doors, windows and their frames and threshold for doors<br>1. Aluminium Alloy Window and their frame<br>2. Aluminium Frame Sliding Door | MS 832 : 2011 – Window<br>MS 1017 : 2012 – sliding door | Alloy Grade<br>6060, 6061, 6063, 6082, 6N01, 1100, 3003, 3105, 5505 | External or internal building facade, roof, cladding, ceiling strips, wall panelling, gutter, windows, doors and curtainwall frames & any other construction applications | Clause 10.1 : Full size set panel; aluminium frame profile @ 4 pcs x 6" | Clause 5 : Material (Alloy Composition & Mechanical), Joint Sealant, Operating device, bearing device and hardware, weatherstrip, Fastener, Glass, Glazing Gasket and Sealant.<br>Clause 10.1 : Performance Test, Clause 10.2.2 : Operation Tests | Clause 5 : Alloy Composition ; Tensile test Dimensional | Clause 14 (window)<br><br>Clause 12 (sliding door) : Name or trade mark of the manufacturer, Number of the MS, Design Wind Pressure | 7610.10.10.00<br>7610.10.90.00 |
| ii | Aluminium modular system scaffolding and accessories  | MS 1462-3-1: 2011<br>CIS 22 : 2017                      |   | For aluminium modular system scaffolding  | Every 250 MT/set  | MS 1462-3-1: 2011 – Clause 7.3, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7   |   | MS 1462-3-1: 2011<br>Clause 10<br>Marking & CIS 22: 2017<br>Clause 5.2.4<br>Product Marking   | 7610.90.99.00                  |

# Additional Comments / Notes

| No | Type of Construction Material | Approved Standard | Grade | Description Application | Verification Standards |                          |                         |         | Custom Hs Code PDK 2017 |
|----|-------------------------------|-------------------|-------|-------------------------|------------------------|--------------------------|-------------------------|---------|-------------------------|
|    |                               |                   |       |                         | Sampling               | Testing (Full Type Test) | Testing (Critical Test) | Marking |                         |
|    |                               |                   |       |                         |                        |                          |                         |         |                         |



# Remarks



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MS ISO 9001:2004 REG NO : AR 1722



MS ISO 9001:2000 REG NO : AR 1722



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