

C.No.1/2/TARIFF-II/2006
GOVERNMENT OF PAKISTAN
REVENUE DIVISION
(FEDERAL BOARD OF REVENUE)

Islamabad, the 19th April, 2017.

CUSTOMS GENERAL ORDER NO. 02/2017

Subject: **LIST OF LOCALLY MANUFACTURED GOODS/ITEMS FOR THE PURPOSES OF CONCESSIONARY NOTIFICATIONS ETC.**

The goods detailed in the appended list of this CGO are manufactured locally. This list is compiled and updated by the Engineering Development Board in consultation with stakeholders. Henceforth the appended list of locally manufactured goods is applicable for reference purposes to all the exemptions/concessionary notifications.

2. The Collectors of Customs and the staff responsible for allowing concessions under different notifications/orders are advised to follow this list for the purposes of allowing concessions from customs duties and sales tax etc. The information if any, alongwith evidence regarding the local manufacture of goods, not indicated in the list, may be forwarded to the FBR forthwith so that the list of locally manufactured goods/items is up-dated in consultation with the Engineering Development Board.

3. The Collectors are, however, authorized to allow release of goods/items indicated in the list of locally manufactured goods/items against bank guarantee for a period of three months if the importer produces a certificate issued by the renowned local manufacturers of the disputed items from Engineering Development Board stating that the imported item is not being manufactured locally and the importer shall produce a clarification from FBR to this effect within the above stated period of three months.

4. This Customs General Order supersedes CGO 11/2007, dated 28th August, 2007 and all other instructions on the subject.



(SANAULLAH ABRO)
SECRETARY (TARIFF-II)

All Collectors of Customs

LIST OF LOCALLY MANUFACTURED GOODS

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1	2	3	4	5	6	7
1	1520.0000	Glycerol (glycerin), crude	Glycerol % 99 Min. Boiling point 250 Min, Iron content (ppm) 0.5 max. Chloride (PPM) 2.0 max.	Appearance Clear white liquid, Sugar +ve (0.25) Specific Gravity 1.256 ~ 1.260	Acidity as Na ₂ O 0.00052%, Fatty Acids & Ester as Na ₂ O Eqv. 0.0077%	Nimir Industrial Chemicals Ltd. 51-N, Industrial Area, Gulberg II, Lahore.
2	2501.0010	Sodium Chloride	Pyrogen free grade	Salt including table salt and Pure Sodium Chloride	NaCl	Hub-Pak Salt Refinery C-206 Hub Industrial Trading Estate Hub, Balochistan
3	2501.0090	Sodium Chloride	Pyrogen free grade	Salt including table salt and Pure Sodium Chloride	NaCl	Hub-Pak Salt Refinery C-206 Hub Industrial Trading Estate Hub, Balochistan
4	2508.1000	Bentonite	Viscosity (Fann viscometer 600 RPM): 15 cps. min. Filtrate Loss (at 100 psi, 30 min.): 15 cc max. pH: 9-10 F36 (Excluding untreated Bentonite meeting API specifications)	Dry Particle Size: 80% < 200 mesh Wet Particle Size: 80-90% < 0.5 micron Residue 75 microns: 4% max. Moisture: 10% max.	SiO ₂ : 50 – 60 % Al ₂ O ₃ : 15 – 20 % Fe ₂ O ₃ : 2 – 4 % MgO: 4 – 6 % CaO: 3 – 6 % K ₂ O: 0.2 – 0.5 % TiO ₂ : 0.2 – 0.5 % Others: 0.5 – 1 % Moisture: 5 – 10 % Loss on Ignition: 10 – 15 %	Ahmad Saeed and Company 2nd Floor, Sindhu Trade Centre, 473, G-III, Johar Town, Lahore
5	2520.2000	Gypsum Powder/Plaster of Paris	100 mesh Gypsum Board Grade	Fine Powder	CaSO ₄ 1/2 H ₂ O	DFB Gypsum Industries, Suit No. 105, 1st Floor, Business & Finance Center, II Chundrigar Road, Karachi
6	2523.9000	Oil Well Cement	Class "G" HSR API Specification 10A	Color: Grey	MgO: 1.0 ~ 2.0% SO ₃ : 1.50 ~ 2.50% Loss on Ignition: 1.20 ~ 1.70% Insoluble Residue: 0.20 ~ 0.30% C ₃ S: 62.0 ~ 64.0% C ₃ A: 0.0 ~ 0.5% C ₄ AF + twice the C ₃ A: 17.0 ~ 20.0% Total alkali content, expressed as Na ₂ O equivalent: 0.30 ~ 0.50% Free-fluid content: 3.0 ~ 5.0% Thickening Time Test Consistency: 15.0 ~ 25.0 minutes Thickening Time: 105.0 ~ 115.0 minutes Compressive Strength after 08 hrs at 38° C: 400 ~ 500 psi Compressive Strength after 08 hrs at 60° C: 1500 ~ 1600 psi	Thatta Cement Co Ltd. No. 606-608, Continental Trade Centre Block-8 Clifton, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
7	2618.0000	Granulated Slag	Calcium Oxide 36%Min., Silica 35%Min., Alumina15%Max., Magnesium Oxide9% Max., Maganese Oxide1.3%Max., Titanium Oxide 1%Max., Iron Oxide 0.7%Max., Sulphur 1%Max., Alkalis 0.70%Max	Moisture 10% Max., Sizes 0-5mm,5-10mm, & 10-15mm	Same as Specification	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
8	2619.0000	Slag, dross	Other than granulated slag and other waste of iron or steel	Converter Slag (Moisture 10% Max., Sizes 0-5mm,5-10mm, & 10-15mm)	Calcium Oxide 55%, Silica 14%, Alumina1.7%, Magnesium Oxide1.7%,	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
9	2704.0010	Coke	Fixed Carbo=By Difference, Moisture Contents=3% typical, Ash=13%Max., Volatile matter=1.5%Max, Sulphur=0.8%, cv=7K-8K KCL/kG	0-25mm 25-80mm. and above	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
10	2704.0090	Coke Dust	Moisture Contents=10%Max, Ash=14%Max.,Volatile matter=4%Max,Sulphur=0.7%Max,cv=6K-8K KCL/kG	0-1mm	Moisture Content 10% (Max); Ash Content 14% (Max); Volatile matter 4% (Max); Sulphur 0.70% (Max); Calorific Value 6000 to 8000 Kcal/kg	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
11	2706.0010	Coal Tar	Ash-0.3%Max, Moisture 5%Max, Density (g/cm3)1.21 Max, Flahs Point 282F	Black and mixed with water	Ash-0.3%Max, Moisture 5%Max, Density (g/cm3)1.21 Max, Flahs Point 282F	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
12	2801.1000	Chlorine	99.90%	Yellow liquid with very irritating odor	Cl ₂	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad Engro Polymer & Chemicals Limited 16th Floor, The Harbor Front Building, HC # 3, Marine Drive, Block-4, Clifton, Karachi
13	2803.0010	Carbon Black (Rubber Grade)	N-220, N-330, N-339, N-375, N-326, N-550, N-660 and N-77	N-220, N-330, N-339, N-375, N-550, N-660, N-7	C % 97-98	National Petrocarbon (Pvt) Ltd. 301-304 3rd Floor Beamount Plaza behind PIDC House Karachi
14	2806.1000	Acid, Hydrochloric	35% (+/-1)	Colorless to yellow liquid	HCl	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad Engro Polymer & Chemicals Limited 16th Floor, The Harbor Front Building, HC # 3, Marine Drive, Block-4, Clifton, Karachi Nimir Industrial Chemicals Ltd. 12-B, New Muslim Town, Lahore.

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
15	2807.0000	Acid, Sulphuric	96% and above	Specific gravity 1.84 Sour Taste Colorless Odorless Iron contents < 100 ppm Hardness < 60 ppm	Formula H ₂ SO ₄ , strong exothermic reaction when diluted, excellent dehydrating agent, reacts with metals to form metallic sulphates, (Copper sulphate, Zinc sulphate, Nickel Sulphate), strong oxidizing agent. Reacts with non metal substances to make nonmetallic sulphides. Reacts with carbon to make CO ₂ and SO ₂ . Reacts with NaCl to make NaHSO ₄ and HCl.	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi Faras Combine Marketing Co (Pvt) Ltd., 77 D New Muslim Town Main Wahdat Road Lahore Prime Chemical (Pvt) Ltd. 18-A, Civic Centre, Faisla Town (Women Welfare Complex), Lahore Exide Pakistan Ltd. A/45, Hill Street, P.O. Box No. 3680 SITE Karachi-75400 Engro Polymer & Chemicals Limited 16th Floor, The Harbor Front Building, HC # 3, Marine Drive, Block-4, Clifton, Karachi
16	2811.2100	Carbon Di Oxide	99.99%	Liquified Colorless, Odorless gas	CO ₂	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
17	2815.1100	Caustic Soda, solid	97%	Flakes and Solid	NaOH	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
18	2815.1200	Caustic Soda, liquid	50%	Colorless solution, liquid	NaOH	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad Engro Polymer & Chemicals Limited 16th Floor, The Harbor Front Building, HC # 3, Marine Drive, Block-4, Clifton, Karachi Nimir Industrial Chemicals Ltd. 12-B, New Muslim Town, Lahore
19	2825.9000	Calcium Hydroxide, excluding natural	96% (by weight)	White fine powder	Ca (OH) ₂	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
20	2827.1000	Ammonium Chloride	99.70%	White crystals	NH ₄ Cl	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
21	2827.2000	Calcium Chloride	77% min.	Granule to powder form	CaCl ₂	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
22	2827.3100	Magnesium Chloride	Min 46% & Max. 98%	Off White Granular Solid	MgCl ₂ .6H ₂ O	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
23	2827.3500	Nickel Chloride	24% as Nickel	Yellowish green crystalline powder	NiCl ₂	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
24	2827.3900	Iron / Ferric Chloride	40% (+/-2) solution	Dark red / brown liquid	Fe Cl ₃	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
25	2828.1010	Calcium Hypochlorite	30% and 35% (+/-1)	White, Crystalline solid	Ca (OCl) ₂	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
26	2828.9000	Sodium Hypochlorite	19 - 20%	Pale Greenish / yellow, Commercial grade	NaOCl	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad Engro Polymer & Chemicals Limited 16th Floor, The Harbor Front Building, HC # 3, Marine Drive, Block-4, Clifton, Karachi Nimir Industrial Chemicals Ltd. 12-B, New Muslim Town, Lahore.
27	2833.1900	Sodium Sulphates, other	98% and above	Industrial grade for Glass, Detergent Tile	Na ₂ SO ₄ (98%)	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi
28	2833.2100	Magnesium Sulphate	48% Min	Colorless prismatic crystals	MgSO ₄ .7H ₂ O	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
29	2833.2200	Sulphates; aluminum	Of Aluminium 14-15%	In Lumps Form.	14-15%	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi Faras Combine Marketing Co (Pvt) Ltd. 77 D New Muslim Town Main Wahdat Road Lahore Prime Chemical (Pvt) Ltd. 18-A, Civic Centre, Faisla Town (Women Welfare Complex), Lahore Exide Pakistan Ltd. A/45, Hill Street, P.O. Box No. 3680 SITE Karachi-75400 Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad
30	2833.2400	Nickel Sulphate	Nickel 22 ± 1%	Greenish Crystals	NiSO ₄ .6H ₂ O	Sitara Chemical Industries Ltd. 32-KM Sheikupura Road, Faisalabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
31	2833.3000	Alum (Double Salt)	Contain 98% as AL 2 (SO4) (3) (NH4)2 SO4. 24H2	Purifies Water	Alum is Soluble in water. In alum crystals, 6 water molecules are held by monovalent ion. 6 water molecules are held by trivalent ion. 12 water molecules are held in the crystal structure. Aqueous solution of alum are acidic due to carionic hydrolysis of trivalent cation. On heating an alum at high temperature the alum swells up in to a porous mass which is called burn alum. Alum acts as coagulants as they are effective in precipitating colloids. Alum have germicide properties. Alum is stable in air.	Exide Pakistan Ltd. A/45, Hill Street, P.O. Box No. 3680 SITE Karachi-75400
32	2836.2000	Sodium Carbonate (di-sodium)	Total Alkalinity as (Na ₂ CO ₃) = >=98% Chloride as NaCl = <=0.85% Iron as Fe ₂ O ₃ = <=0.007% Matter Insoluble In Water = <=0.15% Sulphates a Na ₂ SO ₄ = <=0.08%	White Crystalline powder packed in 40Kg or 80Kg or 100Kg polypropylene bags Pouring Density = 450 to 600 gms / Liter for Light Ash grade Pouring Density = 950 to 1200 gms / liter for Dense Ash grade	Purity or Total Alkalinity as Na ₂ CO ₃ >=98%	ICI Pakistan Limited, Soda Ash Business ICI Pakistan Limited 63, Mozang Road Lahore 54000
33	2836.3000	Sodium bicarbonate	Purity as NaHCO ₃ = >=99% Arsenic as As = <=3 ppm Heavy Metals = <=5 ppm Insoluble Substance = 1gm In 20ml water gives clear solution pH of 1% solution at 25°C = 8.5	White granular powder packed in 25Kg Laminated Polypropylene Bags	Purity as NaHCO ₃ = >=99%	ICI Pakistan Limited, Soda Ash Business ICI Pakistan Limited 63, Mozang Road Lahore 54000
34	2847.0000	Hydrogen Per Oxide	35%, 50%, 60% w/w Concentration and all other Concentrations	Clear Color Less, odour less liquid. Density 1.13-1.24kg/m3 Mol weight 34.01 Kmole/Kg	Viscosity @25°C 1-1.11cp, Boiling Point @101.3KPa is 108-120 oC, Melting Point -33 to -62 oC, Heat of Decomposition is 233.1 to 334.7 Kcal/Kg	Descon Oxychem Limited., 18-Km, Ferozpure Road, Lahore Sitara Peroxide Limited., 26-Km, Sheikhpura Road, Faisalabad.
35	2849.1000	Calcium Carbide	--	--	--	Sino Pak Electrochemical Industries Ltd., Plot No. DSU-20, Zulfiqarabad, Bin Qasim Karachi (Pipri)
36	2904.9090	Reserver Salt	Drying Agent	White Powder Yellow Powder	Drying Agent	S & F Enterprises, Karachi Plot No. F-22, Qabail Colony, Block 11 Gulberg Town, F.B. Area Karachi
37	2915.1100	Acid, formic	85% and above	Transparent Liquid Form	HCOOH 85%	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi Faras Combine Marketing Co (Pvt) Ltd. 77 D New Muslim Town Main Wahdat Road Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
38	2915.7010	Acid, stearic, chemically pure	IV 1.0 ~ 3.0, Acid Value 198 ~ 206, Saponification Value 199 ~ 206, Specific Gravity 0.86, Molecular wt 284.47	Color White, Appearance Small Flakes, Melting point 61 ~ 65	$C_{17}H_{35}COOH$	Nimir Industrial Chemicals Ltd. 51-N, Industrial Area, Gulberg II, Lahore. Gamalux Oleochemicals (Pvt.) Ltd. A-8, NWIZ, Port Qasim Industrial Area, Bin Qasim, Karachi
39	2917.1400	Maleic anhydride	Solidification point: 52.4°C Maleic Acid (%): <0.1 Purity By G.C (%Wt): Min. 99.0 Colour (APHA): Max. 15 - 20 Citraconic Acid %: <0.1 Benzoic Acid %: <0.1 Ortho Toulaldehyde %: <0.1	Maleic anhydride is a colorless crystalline needles, flakes, pellets, rods, briquettes, lumps or a fused mass with pungent odour. Chemical Name: 2 – 5 Furandione Molecular formula: $C_4H_2O_3$ Molecular Weight: 98.06 Melting Point: 52.4 °C Boiling Point: 202 °C Thermal Decomposition Temp: > = 200 °C Solubility in water: Soluble in water.	It is moderately toxic white solid chemical. Maleic Anhydride reacts vigorously on contact with oxidizing materials. It reacts exothermically with water or steam. It undergoes violent exothermic decomposition reactions, producing carbon dioxide, in the presence of strong bases (sodium hydroxide, potassium hydroxide, calcium hydroxide), alkali metals (lithium, sodium, potassium), aliphatic amines (dimethylamine, trimethylamine), aromatic amines (pyridine, quinoline) at temperatures above 150° C. The presence of a residue of weak sodium hydroxide solution in a pressure vessel caused maleic anhydride to decompose in a runaway explosive reaction.	Nimir Chemicals Pakistan Limited 51-N Industrial Area, Gulberg-II, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
40	2917.3200	Diocetyl Orthophthalates (DOP)	Acid value 0.02%, MC 0.05% Colour 15 APHA	<p>Di-octylphthalate is a colorless, odorless, oily liquid mild odour. Slightly less dense than water and insoluble in water. Hence floats on water.</p> <p>Molecular Formula : $C_{24}H_{38}O_4$ Molecular Weight : 390 Melting Point : - 50.0 °C Boiling Point : 384.0 °C Specific Gravity : 0.978 ~ 0.985 at 20 °C Vapour Pressure : 1.0X10⁻⁷ mm Hg at 25 °C.</p>	<p>On heating it emits acid smoke and irritating fumes. It reacts with acids to liberate heat along with alcohols and acids. Strong oxidizing acids may cause a vigorous reaction that is sufficiently exothermic to ignite the reaction products. Heat is also generated by the interaction with caustic solutions. Flammable hydrogen may be generated by mixing with alkali metals and hydrides. It can generate electrostatic charges by swirling or pouring. It is incompatible with Strong oxidizing agents. DOP is an indirect food additive for use only as a component of adhesives.</p>	<p>Nimir Chemicals Pakistan Limited 51-N Industrial Area, Gulgerg-II, Lahore</p> <p>AHN Colloids Chemicals (Pvt) Ltd. 10-Abbott Road, Lahore</p> <p>A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore</p>
41	2917.3500	Phthalic anhydride (PA)	<p>Solidification point: 130.9 Colour (APHA): 20 Heat Hazen at 250 C (APHA): 40 Purity By G.C (%Wt): Min. 99.85 Benzoic Acid %: 0.05</p>	<p>It is a colorless to white lustrous solid in the form of needles with a mild distinctive odor. Forms a corrosive solution when mixed with water. Chemical Name : 1, 2 Benzene Di Carboxylic Acid Anhydride ($C_8H_4O_3$) Molecular Weight : 148 Melting Point: 131.9 °C Boiling point: 284.5 °C Vapor pressure : 5.17X10⁻⁴ mm Hg at 25 °C Vapor density: 6.6 (Air = 1) Water solubility : 6,000 mg/L at 25 °C Slightly soluble: in ethyl ether Soluble in Ethanol, acetone, benzene</p>	<p>Phthalic anhydride hydrolyzes rapidly in the presence of water forming Phthalic Acid. It is incompatible with acids, strong oxidizing agents, alcohols, amines, and bases. Reacts with strong oxidants, strong acids, strong bases and reducing agents. Reacts violently with copper oxide and sodium nitrite on heating. This generates explosion hazard. Attacks many metals in the presence of water. Naphthoquinones (byproduct of Naphthalene) reacts with iron salts of phthalic acid & iron sulfides to form fire & explosion. The material is stable at normal conditions even under fire exposure conditions and do not react with water.</p>	<p>Nimir Chemicals Pakistan Limited 51-N Industrial Area, Gulgerg-II, Lahore</p>
42	2934.9910	Furazolidine	Active Pharmaceutical Ingredient (API) & Feed grade	Yellow Powder	--	Alpha Chemicals (Pvt) Limited 113 A Canal View Housing Society Near Thokar Niaz Baig, Lahore
43	2939.4100	Ephedrine Hydrochloride / Ephedrine Sulphate	Active Pharmaceutical Ingredient (API)	White Crystalline Powder	--	Alpha Chemicals (Pvt) Limited 113 A Canal View Housing Society Near Thokar Niaz Baig, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
44	2939.4200	Pseudoephedrine Hydrochloride / Pseudoephedrine Sulphate	Active Pharmaceutical Ingredient (API)	White Crystalline Powder	--	Alpha Chemicals (Pvt) Limited 113 A Canal View Housing Society Near Thokar Niaz Baig, Lahore
45	3004.5090	Medicaments containing vitamins	Soya based vitamin and minerals Instant beverage	Food grade	--	Matrix Pharma Pvt. Ltd. Plot 12, Secotr 15 Korangi Industrial Area, Karachi
46	3102.2100	Amonium Sulphate	Acidity 0.04% Maz, Nitrogen 21%Max, Sulphur 24.24%	Crystal Size = 0.25mm Min.)	Acidity 0.04% (max) Nitrogen 21.00% Crystal size 0.025mm & 70% (min)	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
47	3202.1000	Synthetic organic tanning substances	Tanning is the process of treating skins and hides of animals to produce leather. The substance used to achieve the desired affect are known as tanning substances.	May be solid or liquid at room temperature	Crosslinking of the protein structure of skin, making it more durable and less susceptible to decomposition.	Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
48	3202.9010	Tanning preparations	Tanning is the process of treating skins and hides of animals to produce leather. The substance used to achieve the desired affect are known as tanning substances.	May be solid or liquid at room temperature	Crosslinking of the protein structure of skin, making it more durable and less susceptible to decomposition.	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore Industrial Chemicals (Pvt.) Ltd. D-29 SITE, South Avenue Manghopir Road , Karachi
49	3202.9090	Bates, artificial	In the bating process, proteases are used to remove scud and unwanted proteins. The process also deswells swollen pelts. The result of bating with the use of enzymes is a clean,smooth and soft hide surface.	May be solid or liquid at room temperature	Enzymes	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
50	3204.1100	Disperse dyes and preparations	Water-insoluble dyes that are used for the dyeing of polyester and acetate fibers. Normally comes with a dispersing agent to disperse them in water.	May be solid, semi-solid or liquid at room temperature	Water-insoluble dyes	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
51	3204.1200	Dyes, acid	Water soluble dyes used for the dyeing of silk, wool, nylon and modified acrylics	May be solid, semi-solid or liquid at room temperature	Water soluble dyes	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S, Karachi – 75400 Sandal Dyestuff Industries Ltd. 4 KM Chak Jhumra Sangla Hill Road, Faisalabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
52	3204.1200	Acid Dyes for Leather	Water soluble dyes used for the dyeing of silk, wool, nylon and modified acrylics	May be solid, semi-solid or liquid at room temperature	Water soluble dyes	<p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Sardar Chemical Industries Suit # 9, 2nd Floor, Hafeez Centre, Main Boulevard, Gulberg-III, Lahore</p> <p>Sardar Dyes & Chemical Industries</p> <p>Chemi-Dystuff Industries (Pvt) Ltd.</p> <p>Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore</p> <p>Sandal Dystuffs Industries 305-308, 2nd Floor, The Business Center, 8/8 New Civil Lines Faisalabad</p> <p>Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore</p>
53	3204.1400	Direct dyes and preparations	Water soluble substantive dyes that have affinity for cellulosic fibres	--	--	<p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Sandal Dyestuff Industries Ltd. 4 KM Chak Jhumra Sangla Hill Road, Faisalabad</p>
54	3204.1600	Reactive dyes and preparations	Water soluble organic substances, primarily used for tinting textiles, that attach themselves to their substrates by a chemical reaction by forming a covalent bond between the molecule of dye and that of the fibre.	May be solid or liquid at room temperature	Water soluble organic substances that are attached to the fibers through a dyeing process with the help of certain chemicals	<p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Sandal Dyestuff Industries Ltd. 4 KM Chak Jhumra Sangla Hill Road, Faisalabad</p>
55	3204.1700	Pigments and preparations	Pigments are water insoluble and are applied as finely ground solid particles through a liquid matrix. Pigments may be organic.	May be solid, semi-solid or liquid at room temperature	Main organic pigment includes azo pigments and Copper phthalocyanines.	<p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Mobil Master Batch Industries (Pvt) Ltd., 92- Main Ravi Road, Lahore</p> <p>BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S, Karachi – 75400</p> <p>Sandal Dyestuff Industries Ltd. 4 KM Chak Jhumra Sangla Hill Road, Faisalabad</p> <p>Bin Rasheed Color & Chemical Mfg Co. 10 Abbot Road, Lahore - 54000</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
56	3204.2000	Synthetic organic products of a kind used as fluorescent brightening agents	Optical brighteners, optical brightening agents (OBAs), fluorescent brightening agents (FBAs) or fluorescent whitening agents (FWAs) are chemical compounds that absorb light in the ultraviolet and violet region (usually 340-370 nm) of the electromagnetic spectrum, and re-emit light in the blue region (typically 420-470). These additives are often used to enhance the appearance of fabric and paper, causing a "whitening" effect"; they make intrinsically yellow materials look less so, by compensating the deficit in blue and purple light reflected by the material, with the blue and purple optical emission.	May be solid or liquid at room temperature	--	<p>Sardar Dyes & Chemical Industries</p> <p>Sandal Dystuffs Industries 305-308, 2nd Floor, The Business Center, 8/8 New Civil Lines Faisalabad</p> <p>Chemi-Dystuff Industries (Pvt) Ltd.</p> <p>Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore</p> <p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Sardar Chemical Industries Suit # 9, 2nd Floor, Hafeez Centre, Main Boulevard, Gulberg-III, Lahore</p> <p>Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore</p> <p>- S & F Enterprises, Karachi</p>
57	3204.9000	Whitening agent	Textile grade	May be solid, semi-solid or liquid at room temperature	--	<p>Sardar Dyes & Chemical Industries</p> <p>Sandal Dystuffs Industries 305-308, 2nd Floor, The Business Center, 8/8 New Civil Lines Faisalabad</p> <p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Chemi-Dystuff Ind. (Pvt) Ltd. D/4, South Avenue, S.I.T.E Karachi-75700</p> <p>Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore</p> <p>Sardar Chemical Industries Suit # 9, 2nd Floor, Hafeez Centre, Main Boulevard, Gulberg-III, Lahore</p> <p>Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
58	3206.1900	Pigments and preparations	Textile/Leather grade Preparations containing less than 80% titanium dioxide, include dispersions in plastics, natural rubber, synthetic rubber or plasticizers, used for colouring plastics and rubber etc in the mass.	May be solid, semi-solid or liquid at room temperature	Mainly inorganic pigment based on TiO ₂ .	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 Mobil Master Batch Industries (Pvt) Ltd., 92- Main Ravi Road, Lahore Bin Rasheed Color & Chemical Mfg Co. 10 Abbot Road, Lahore - 54000
59	3206.2010	Chrome Yellow for oil Paint, Industrial Paints, Master Batches, Artificial Leather, NC Paints and printing Inks	Chrome Yellow Pigments (Inorganic) 95%	Appearance Yellow Colour	PH. Value 5.7 to 7.8 PbCrO ₄ <68 to < 90% S.P. Gravity 5.6 to 6.1 Fastness to Heat 180 °C to 240 °C Moisture 0.5% Timing strength 100 + 5% Fineness: 325 to 450 Mesh	Poplon & Company (Pvt) Ltd. 34-N, Gulberg II, Lahore
60	3206.4290	Masterbatches	Based on Lithopane/ Zinc Sulphide:	Solid form	Dispersion of Lithopane and Zinc Sulphide in polymers	Clariant Chemicals Pakistan (Pvt) Ltd. Sector 20, Korangi Industrial Area, Karachi. Bin Rasheed Color & Chemical Mfg Co. 10 Abbot Road, Lahore - 54000 Mobil Master Batch Industries (Pvt) Ltd., 92- Main Ravi Road, Lahore
61	3206.4910	Masterbatches	Master Batches - Solid	Solid form	Organic and inorganic in nature, resistance to solvents, nature is acidic /alkali	Clariant Chemicals Pakistan (Pvt) Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi. Bin Rasheed Color & Chemical Mfg Co. 29-G/5, Model Town, Lahore Mobil Master Batch Industries (Pvt) Ltd., 92- Main Ravi Road, Lahore
62	3206.4990	Masterbatches	Master Batches- Liquid	Paste form	Organic and inorganic in nature, resistance to solvents, nature is acidic /alkali	Clariant Chemicals Pakistan (Pvt) Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi. Bin Rasheed Color & Chemical Mfg Co. 29-G/5, Model Town, Lahore Mobil Master Batch Industries (Pvt) Ltd., 92- Main Ravi Road, Lahore
63	3208.2090	Plastic Parts Clear Coat	Special synthetic Acrylic Polyol based resin.	Clear Coat for Glossy Finish.	UV resistant, water Resistant.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
64	3208.2090	Clear coat (Baking paint)	Acrylic Melamine based Resin.	Clear Coat for Glossy Finish.	UV resistant & Protective Clear coat.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
65	3208.9090	Primer Surfacer / Intermediate Coat (Baking Paint)	Polyester/Melamine resin based paint for automotive	Liquid coloured paint with anti-chipping property	Mild Acid/Alkali resistant middle coat	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
66	3208.1090 3208.2090 3208.9090	Stoving clear Coats	i) Polyester based ii) Acrylic based iii) Alkyd Melamine Based Resin.	Clear Coat for Glossy Finish. Clear coat (Baking)	UV resistant, water Resistant & Protective Clear coat.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
67	3208.1090 3208.2090 3208.9090	Aluminium Paints	i) Polyester based ii) Acrylic based iii) Alkyd Melamine Based Resin.	Metal finishing	Metallic effect finishes.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
68	3208.1090 3208.2090 3208.9090	Metallic / Pearl basecoat (Baking Paint)	i) Polyester based ii) Acrylic based iii) Alkyd Melamine Based (Resins with Alumnium & Mica).	Colored properties with Mica & Aluminium.	To give assorted colors.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
69	3208.1090 3208.2090 3208.9090	Stoving enamels	i) Polyester based ii) Acrylic based iii) Alkyd Melamine Based Resin.	Give color & Protection.	Corossion resistant.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
70	3208.1090 3208.2090 3208.9090	Stoving Primer/ Intermediate Coat	i) Polyester based ii) Acrylic based iii) Alkyd Melamine Based Resin.	- For Smooth finish & good adhesion. - Liquid coloured paint with anti-chipping property	- Anti corrosive property. - Mild Acid/Alkali resistant middle coat	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
71	3208.1090 3208.9090	Solid Colour Topcoat (Baking Paint)	i) Polyester based ii) Alkyd Melamine Based Resin	Coloured liquid paint for automotive vehicles	Protection & good appreance.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
72	3208.2090 3208.9090	PU Clears Paints	Polyurethane (PU) Polyol /Acrylic Urethane (AU) Resin based.	Clear Coat for Glossy Finish.	UV resistant, water resistant & good weatherability.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
73	3208.2090 3208.9090	Primer for Plastic Parts	Special synthetic Acrylic Polyol based resin.	Pigmented Colored Paint.	For Smooth surface adhesion & Finish.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
74	3208.2090 3208.9090	Plastic Parts Base Coat	Special synthetic Acrylic Polyol based resin.	Pigmented color for Automitive vehicles.	To give assorted colors.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
75	3208.2090 3208.9090	PU Enamels	Polyurethane (PU) Polyol /Acrylic Urethane (AU) Resin based.	Give color & Protection.	Protect against weather.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
76	3208.2090 3208.9090	PU Primers	Polyurethane (PU) Polyol /Acrylic Urethane (AU) Resin based.	For Smooth finish & good adhesion.	UV resistant, water Resistant & good adhssion to the substrate.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
77	3209.1090 3209.9090	Cathodic Electro-Deposition Primer (CED) (Two Component- Baking paint) - F-1 Pigment Paste & F-2 Resin Emulsion	i) Acrylic based CED paint ii) Modified Epoxy resin based CED paint	i) Coloured liquid paint ii) Milky liquid emulsion paint	Anti-corrosive paint	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
78	3210.0020	Prepared water pigments	For Textile	May be solid, semi-solid or liquid at room temperature	--	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400
79	3211.0090	Dryers, prepared	For paints	Liquid	Dryer for Paints	Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore Nimir Resins Limited Akhavan House, 38 Davis Road, Lahore
80	3213.1000	Colours in sets	Water Colour sets for children, Poster Colours	Viscous Gel like liquid. Packed in plastic container	CMC Organic Pigments Clay	Indus Pencil Industries B-54, Manghopir Road SITE Karachi
81	3214.9010	Silicon Sealant	Acetoxy & Neutral Cure Sealants	For use in Construction, Automotive, Solar Panels, Home Appliances, Electronics, Textiles, Glass Processing, Sanitary, and others	Sealant made using, but not solely comprising of, silicone polymer [-Si-O-Si-] backbone	Harris Silicones & Glass (Pvt.) Ltd. Farooque Industrial Estate, Anam Road 20km Ferozepur Road Lahore
82	3215.9090	Ink	Fountain Pens inks in Bottles, Sachets and Catridges	Colour: Black, Blue, Red, Green Form: Liquid	Boiling Point (at 760 mmHg): 99°C PH:5.46~7.85 Specific Gravity: 1.004~1.017gm/cm ³ Viscosity at 25°C: 3.3~4.72cps Surface Tension: 51.813~65.944dyne/cm	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
83	3402.1110	Linear Alkyl Benzene Sulphonic Acid	96% & 90%	Liquid	--	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi
84	3402.1190	Sodium Lauryl Ether Sulphate	70%	Paste	--	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi
85	3402.1190	Sodium Lauryl Sulphate	--	Powder & Paste	--	Tufail Chemical Industries Ltd. Progressive Centre, Mezz Floor, 30-A/6, PECHS, Shahrah-e-Faisal, Karachi
86	3402.1300	Non Ionic Surface-active agents	Surfactants are compounds that lower the surface tension (or interfacial tension) between two liquids or between a liquid and a solid. Surfactants may act as detergents, wetting agents, emulsifiers, foaming agents, and dispersants.	May be solid or liquid at room temperature	Surfactants that do have an ionic character	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
87	3402.9000	Surface Active Preparations and cleaning agents	Surface Active Preparations and Cleaning agents are composed mainly of surfactant alongwith auxiliaries to boost the performance of formulation. They mainly act as detergents, wetting agents, emulsifiers, foaming agents or dispersants. Surfactants of various nature may be blended for the synergistic effect.	May be solid or liquid at room temperature	May be blend of ingredients containing one or more surfactant. May include auxiliaries to boost the performance of the formulation.	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
88	3403.1110	Preparation	Preparations are intended to prepare leather and give it desirable properties.	--	--	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore
89	3403.9110	Preparation	Fat Liquor	Mainly liquid at room temperature	Reduce friction and enhance smoothness/ slippage property.	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Chemical Process Ind. (Pvt) Ltd. 103-Habitat, Shadman-II, Jail Road Lahore
90	3602.0000	Prepared Explosive - Super Balster	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
91	3602.0000	Prepared Explosive - Balster	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
92	3602.0000	Prepared Explosive - Super Breaker	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
93	3602.0000	Prepared Explosive - Seismic Explosive	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
94	3602.0000	Prepared Explosive - Pre-Splitter	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
95	3603.0000	Detonator-Plain	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
96	3603.0000	Electric Detonator	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
97	3603.0000	Seismic Electric Detonator	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
98	3603.0000	Milli Second Delay Electric Detonator	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
99	3603.0000	Half Second Delay Electric Detonator	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
100	3603.0000	Milli Second Delay Non Electric Detonator	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
101	3603.0000	Half Second Delay Non Electric Detonator	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
102	3603.0000	Two Way Delays Relays	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
103	3603.0000	Safety Fuse	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad
104	3603.0000	Detonating Cord	-	-	-	Biafo Industries Ltd. 1st Floor Biafo House, Plot No. 23, St No. 38-40, I&T Centre, G-10/4, Islamabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
105	3701.3030	Presensitized printing plates	Aluminum Plates Lithographic Thickness ranging from 0.15mm to 0.30mm. Packing in Corrugated cartons	<p><u>Thickness 0.15mm:</u> 450mm x 370mm (100 Plates); 500mm x 370mm (100 Plates); 510mm x 400mm (100 Plates); 900mm x 715mm (50 Plates)</p> <p><u>Thickness 0.20mm:</u> 645mm x 510mm; 745mm x 585mm; 760mm x 603mm; 840mm x 603mm; 840mm x 625mm (all in 50 Plates).</p> <p><u>Thickness 0.24mm:</u> 650mm x 550mm (50 Plates); 724mm x 615mm (50 Plates); 745mm x 585mm (50 Plates); 745mm x 605mm (50 Plates); 914mm x 625mm (30 Plates); 915mm x 715mm (30 Plates)</p> <p><u>Thickness 0.30mm:</u> 840mm x 586mm (30 Plates); 890mm x 586mm (30 Plates); 914mm x 585mm (30 Plates); 914mm x 625mm (30 Plates); 915mm x 715mm (30 Plates); 925mm x 625mm (30 Plates); 925mm x 715mm (30 Plates); 975mm x 755mm (30 Plates); 1030mm x 770mm (20 Plates); 1030mm x 820mm (20 Plates); 1270mm x 1030mm (20 Plates)</p>	Si 0.037, Mn 0.007, Cu 0.003 Fe 0.30, Mg 0.001, Zn 0.007, Al 99.56.	DuTech (Pvt) Limited Plot No.18, Sector No. 28, Korangi Industrial Area, Karachi
106	3806.2000	Sodium Resinates	pH 9 -12	Dark Brown Paste	Sodium Resinate	Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore
107	3809.9110	Printing gum	Main use is in printing applications where gums are used to increase the medium viscosity enabling localized coloration.	May be solid or liquid at room temperature	Impart thickness to the matrix under the influence of pH.	<p>BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400</p> <p>Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900</p> <p>Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore</p> <p>ICI Pakistan 63, Mozang Road Lahore 54000</p> <p>Universal Chemicals B-45, Estate Avenue S.I.T.E, Karachi</p> <p>- Alka Chemicals</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
108	3809.9190	Dyeing Auxiliaries and Finishing Agents	Dyeing and Finishing agents are used to impart desired effect on textiles. Use of agents facilitate the dyeing and finishing of the fabrics.	May be solid or liquid at room temperature	Improve the performance of the dyeing process and imparts desirable aesthetic to the treated fabric.	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
109	3809.9300	Finishing agents	Finishing agents are used to impart desired effect on textiles. Use of agents facilitate finishing of the fabrics.	May be solid or liquid at room temperature	Imparts desirable aesthetic to the treated fabric.	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
110	3814.0000	Organic Composite Solvents and Thinners	Organic Hydrocarbon Compound.	Dilution & smooth application.	Rehology control & adjustment of the Paint according to various environment.	Kansai Paint (Pvt) Ltd. 139-CCA, Sector DD, Phase IV Defence Housing Authority, Lahore
111	3816.0000	Refractory cements, mortars, concretes and similar compositions, other than products of heading 38.01.	Tap Hole Repair Mass & Mastic Tubes	<u>Tap Hole Repair Mass:</u> Specific Gravity:3.0 min Cold Crushing Strength (kg/cm2):250 min Grain Size:0 - 3 mm Bulk density (Kg/dm3): 2.70 min <u>Mastic Tubes:</u> LOI(%):45 max Maximum Grain Size:(-) 60 BS Mesh	<u>Tap Hole Repair Mass:</u> MgO(%) :91 min Al ₂ O ₃ (%):0.8 max Fe ₂ O ₃ (%):1.8 max CaO(%) :2.5 max SiO ₂ (%):4.5 max <u>Mastic Tubes:</u> C(%): 25 min Al ₂ O ₃ (%):30 min SiC (%): 03 min SiO ₂ (%): 15 max K ₂ O + Na ₂ O(%):0.2 max	Bhanbhore Ceramics Industries Plot DSU-18, Pakistan Steel Down Stream Industrial Estate Bin Qasim Karachi
112	3823.1100	Acid, stearic	IV 1.0 ~ 3.0, Melting point 61 ~ 65, Specific Gravity 0.86	Small Flakes, colour: White	C ₁₇ H ₃₅ COOH	Nimir Industrial Chemicals Ltd. 51-N, Industrial Area, Gulberg II, Lahore.
113	3823.1910	Acid oils for refining	Palm fatty acid distillate (PFAD)	Colour 5 ~ 6, -1, Melting point 48 ~ 52	Acid Value 190 Min.	Nimir Industrial Chemicals Ltd. 51-N, Industrial Area, Gulberg II, Lahore. Gamalux Oleochemicals (Pvt.) Ltd. A-8, NWIZ, Port Qasim Industrial Area, Bin Qasim, Karachi
114	3823.1920	Acid oils for refining	Palm Acid Oil	--	--	Nimir Industrial Chemicals Ltd. 51-N, Industrial Area, Gulberg II, Lahore.
115	3823.1930	Acid oils for refining	Fatty Acid Distilled (FAD) 92% to 99%, IV 30 ~ 55	Colour 5 ~ 6, -1, Melting point 45 ~ 58	Acid Value 190 Min.	Nimir Industrial Chemicals Ltd. 51-N, Industrial Area, Gulberg II, Lahore. Gamalux Oleochemicals (Pvt.) Ltd. A-8, NWIZ, Port Qasim Industrial Area, Bin Qasim, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
116	3903.1100	Polystyrene expandable, in primary forms	(i) Plastic foaming grade (ii) Plastic moulding grade (iii) Plastic extrusion grade	Resins and Granules	Polymer	Pak Petrochemical Industries (Pvt) Ltd. Polymer House, Survey No. 136, 25th km, on Main National Highway, Karachi-75030
117	3903.1910	General purpose polystyrene (GPPS)	(i) Plastic moulding grade (ii) Plastic extrusion grade	Resins and Granules	Polymer	Pak Petrochemical Industries (Pvt) Ltd. Polymer House, Survey No. 136, 25th km, on Main National Highway, Karachi-75030
118	3903.1920	High Impact Polystyrene (HIPS)	(i) Plastic moulding grade (ii) Plastic extrusion grade	Resins and Granules	Polymer with more than 95% styrene	Pak Petrochemical Industries (Pvt) Ltd. Polymer House, Survey No. 136, 25th km, on Main National Highway, Karachi-75030
119	3903.9010	High Impact Polystyrene (HIPS)	(i) Plastic moulding grade (ii) Plastic extrusion grade	Resins and Granules	Co polymer with less than 95% styrene	Pak Petrochemical Industries (Pvt) Ltd. Polymer House, Survey No. 136, 25th km, on Main National Highway, Karachi-75030
120	3904.1090	Poly Vinyl Chloride (PVC) Resin	Suspension	Appearance Color White Volatile Matter 0.4% wt max Particle size 40 mesh pass 100% wt min Particle Size 270 mesh pass 3% wt max	Polyvinyle Chloride , C_2H_3Cl , is an inert material, it does not react with most chemicals and solvents. Resistant to Acids, bases, slats and most solvents. Partially soluble in acetone.	Engro Polymer & Chemicals Limited 16th Floor, The Harbor Front Building, HC # 3, Marine Drive, Block-4, Clifton, Karachi
121	3904.2200	PVC not mixed with other substances, plasticised	(PVC Compound) International /National Standard (Cable Grade only)	Granules	C_2H_3Cl	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Atlas Rubber & Plastic Industries 9th Floor, Textile Plaza, Mumtaz Hassan Road Karachi – 74000 Bismillah Plastic Works Sohail Manzil, Street No. 30 Sector "F" Allama Iqbal Road, Manzoor Colony Karachi
122	3904.2200	PVC Compound (Plasticized)	BSS 7655	Granules	C_2H_3Cl	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
123	3905.1200	Vinyl Acetate Copolymers	Vinyl acetate-acrylic copolymers, emulsion products that are used for a wide range of applications including paints, bond coats, binders, pigmented paper coatings, textiles, and nonwovens	Liquid at room temperature	Crosslink to form film that imparts desirable properties to the treated surface.	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 Nimir Resins Limited Akhavan House, 38 Davis Road, Lahore Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
124	3905.2100	Polyvinyl acetate	Polyvinyl acetate polymers, emulsion products that are used for a wide range of applications including paints, bond coats, binders, pigmented paper coatings, textiles, and nonwovens	Liquid at room temperature	Crosslink to form film that imparts desirable properties to the treated surface.	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900
125	3906.9030	Pigment thickener	Pigment thickener	--	--	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 ICI Pakistan Limited 63, Mozang Road Lahore 54000 T & N Chemical 12.5 KM Sitara Road, Faisalabad
126	3906.9090	Acrylic polymers	Acrylate polymers belong to a group of polymers based on acrylic acid, methacrylic and their esters. They are noted for their transparency, resistance to breakage, and elasticity. They are also commonly known as acrylics or polyacrylates.	Mainly liquid at room temperature. However, can be produced in solid form	Acrylate polymers upon drying form films that yield desired properties on the substrate	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 Nimir Resins Limited Akhavan House, 38 Davis Road, Lahore BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400 Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road), Lahore Sandal Dyestuff Industries Ltd. 4 KM Chak Jhumra Sangla Hill Road, Faisalabad
127	3907.3000	Epoxide in primary forms	Electrostatic Coating Powder	--	--	Oxyplast Pakistan (Pvt.) Ltd. Silver House, 11/E, Block-6 P.E.C.H.S., Karachi.
128	3907.3000	Fusion Bonded Epoxy (FBE)	Jotapipe & Corro-Coat (Anti-Corrosion Coating for Piping)	1350-1500G/L >0.5% Moisture Contents Hardness Avg. 85 (ASTM. STD)	Polarized Cracking Pass Impact resistance >1.5J	Jotun Powder Coatings Pakistan (Pvt) Ltd. 2 KM Defence Road, Off 9 KM Raiwind Road, Adj. Valancia Homes Gate, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
129	3907.5000	Resins, alkyd, in primary forms	Viscosity 3-1000 poises Acid Value less than 12	Colour Max 10GH	Esters	Nimir Resins Limited Akhavan House, 38 Davis Road Lahore Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore
130	3907.6010	Polyethylene terephthalate in primary	Polyester Chips - Yarn and Film grade	Yarn and Film Grade	--	Gatron (Industries) Limited 11th Floor, G&T Tower No. 18, Beaumont, Civil Lines – 10, Karachi. Novatex Ltd. Ground Floor, G&T Tower # 18, Beaumont Road, Civil Lines - 10, Karachi - 75530
131	3907.6020	Polyethylene terephthalate in primary	Polyester Chips - Bottle grade (Pet Resin)	Bottle grade (Pet Resin)	--	Gatron (Industries) Limited 11th Floor, G&T Tower No. 18, Beaumont, Civil Lines – 10, Karachi. Novatex Ltd. Ground Floor, G&T Tower # 18, Beaumont Road, Civil Lines - 10, Karachi - 75530
132	3907.6090	Polyethylene terephthalate in primary	Polyester Chips Amorphous	Plastic Resin in Granules	Polyester Resin made from PTA & MEG with I.V. 0.6 to 0.68 in Amorphous form capable of being upgraded to PET Bottle Grade.	Novatex Ltd. Ground Floor, G&T Tower # 18, Beaumont Road, Civil Lines - 10, Karachi - 75530 Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore
133	3907.9100	Polyesters, unsaturated, in primary forms	Unsaturated polyester Resins	--	--	BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400
134	3907.9900	Powder Coating Pure Polyester	Corro-Coat PE (Exterior Polyester Powder Coating	Film Hardness >70 (EN ISO 2815) 100% Adhesion	Exceed 5mm without Film Cracking Salt Spray Resistance Excellent	Jotun Powder Coatings Pakistan (Pvt) Ltd. 2 KM Defence Road, Off 9 KM Raiwind Road, Adj. Valancia Homes Gate, Lahore
135	3907.9900	Epoxy Polyester Hybrid	Corro-Coat MX (Interior Hybrid Powder Coating	Film Hardness >80 (EN ISO 2815) 100% Adhesion	Exceed 60 Inch Pounds without film cracking Salt Spray Resistance Excellent	Jotun Powder Coatings Pakistan (Pvt) Ltd. 2 KM Defence Road, Off 9 KM Raiwind Road, Adj. Valancia Homes Gate, Lahore
136	3907.9900	PE – F Polyester Facade	Corro-Coat PE-F (Exterior Durable Polyester Powder Coating	Film Hardness >80 (EN ISO 2815) 100% Adhesion	2.5 Nm without film cracking	Jotun Powder Coatings Pakistan (Pvt) Ltd. 2 KM Defence Road, Off 9 KM Raiwind Road, Adj. Valancia Homes Gate, Lahore
137	3909.2000	Resins , melamine, in primary forms	Viscosity 75 Poises Acid Value less than 2	Colour Water White	Amino	Descon Chemicals (Pvt) Ltd. Akhavan House, 38-Shahrah-e-Sir, S.M.S Agha Khan-III, (Davis Road) Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
138	3912.2090	Nitrocellulose in primary forms	Used in leather industry to impart special finish	Mainly liquid at room temperature.	Based on Nitrocellulose	Archroma Pakistan Ltd. 1-A/1, Sector 20, Korangi Industrial Area, Karachi – 74900 BASF Pakistan (Pvt.) Ltd. 46-A, Block – 6, P.E.C.H.S Karachi – 75400
139	3917.2100	Tubes, Pipes & Hoses, Rigid of Polymers of Ethylene	ISO4437 ISO 4427 DIN 8074 ASTM 2513	Diameter 20mm to 630mm and ¾" to 12" Length of coils as per customer requirement or straight lengths upto 40 feet	Ethylene	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi Sun International Co. (Pvt) Ltd. 62 CMA Colony Street #4 Lahore Cantt. Lahore
140	3917.2100	PE Gas Pipe Fittings	SNGPL Spec, ASTM-2513, ASTM-D-2683 SSGC Spec. ISO-4437 ISO-8085 EN-1555	Dia: 3/4 inch to 6 inch Length: 12 inch to 36 inch PE Spec: PE-80/100 Steel Spec: ASTM & API 5L Dia: 20mm to 180mm Length: 12 inch to 36 inch PE Spec: PE-80/100 Steel Spec: ASTM & API 5L	Melt Flow 0.8 gm/10mn, Density >0.940 to 0.947 to gm/cm ³ Melt Flow 1.55 gm/10mn, Density >0.940 to 0.955 to gm/cm ³	Mechfit Industries 124-IV, E-Block Model Town, Lahore Swabis Polyplast A-496, St No. 9, Block "N", North Nazimabad Karachi
141	3917.2100	PE Water Pipe Fittings	ASTM-2513	Dia: 3/4 inch to 6 inch Length: 12 inch to 36 inch PE Spec: PE-80/100 Steel Spec: ASTM & API 5L Dia: 20mm to 180mm Length: 12 inch to 36 inch PE Spec: PE-80/100 Steel Spec: ASTM & API 5L	Melt Flow 0.8 gm/10mn, Density >0.940 to 0.947 to gm/cm ³ Melt Flow 1.55 gm/10mn, Density >0.947 to 0.955 to gm/cm ³	Mechfit Industries 124-IV, E-Block Model Town, Lahore Swabis Polyplast A-496, St No. 9, Block "N", North Nazimabad Karachi
142	3917.2100	Blow Moulded Cans/ Jars	HDPE Material	0.25, 0.5 and 1 litre sizes	Density 942	Mechfit Industries 124-IV, E-Block Model Town, Lahore
143	3917.2200	Hoses, polypropylene, rigid	Din 8077	Diameter 20mm to 110mm	--	Sun International Co. (Pvt) Ltd. 62 CMA Colony Street #4 Lahore Cantt. Lahore
144	3917.2900	Glass Reinforced Epoxy (GRE) Pipes	20 ft. upto: 18" dia For Tube Well Pipes etc.	Food Grade	--	Creative Engineering (Pvt) Ltd. 160/ S, Q.I.E. Kot Lakhpat Lahore
145	3917.2900	Fiber Reinforced Polyester (Fiberglass) Ladder	16 Ft, 32 Ft and 48 Ft.	--	--	Creative Engineering (Pvt) Ltd. 160/ S, Q.I.E. Kot Lakhpat Lahore
146	3917.4000	Fittings, plastic	Joints, elbows, flanges etc. ASTM 2513	As per API 5LB for steel As per ASTM 2513 for Polyethylene	As per API 5LB for steel As per ASTM 2513 for Polyethylene	Swabis Polyplast A-496, St No. 9, Block "N", North Nazimabad Karachi
147	3918.1000	Polyvinyl Chloride floor covering	PVC Flooring	--	--	A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore Green Earth Recycling Pakistan 208/A Street # 5, Cavalry Grounds, Cantt. Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
148	3919.1090	Detectable Underground Tape	LDPE Sheet with Aluminium foil	Thickness 4-7 mils, Elongation 80%, Tensile 20 lb/ inch	Al thickness 0.3 mils	Mechfit Industries 124-IV, E-Block Model Town, Lahore
149	3920.2090	Polypropylene	PP/PE sheet 1.5mm to 12mm (6*4' Sheet) Flat sheeting combination of Polypropylene and Polyethylene. Thickness ranging from 1.5mm to 12mm and width upto 4 feet	Can be customized according to customer requirements	--	Green Earth Recycling Pakistan 208/A Street # 5, Cavalry Grounds, Cantt. Lahore
150	3920.3000	Polystyrene plates, sheets, film,	HIPS 1mm to 4mm (6*4" sheet) GPPS, Polystyrene Sheet Thickness 0.25 mm to 7.00 mm Width 48" Flat sheeting made from Polystyrene (PS), High Impact Polystyrene (HIPS), General Purpose Polystyrene (GPPS), Acrylic (PMMA), Acrylonitrile Butadiene Styrene (ABS), a combination of HIPS and GPPS and a combination of ABS and PMMA. Thickness ranging from 1 mm to 10 mm and width upto 4.5 feet	--	Polystyrene sheet is a high impact grade of polystyrene with improved stress crack resistance, developed for extrusion and thermoforming applications, especially for the refrigerator industry in various thickness and sizes.	Lucky Plastic Industries (Pvt) Ltd. Polymer House E-110 Main Boulevard Defence, Lahore Cantt, Lahore. Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore Green Earth Recycling Pakistan 208/A Street # 5, Cavalry Grounds, Cantt. Lahore
151	3920.4300	Polyvinyl Chloride plates, sheets,	PVC Flexible Sheet Width = Upto 132 Inches Minimum Thickness = 30Micron, Maximum Thickness = 2000Micron, Length = As per customer requirement	--	--	A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore
152	3920.4910	Polyvinyl Chloride plates, sheets, rigid	Width 24" Thickness 50 to 500 Micron (PVC)	--	--	Lucky Plastic Industries (Pvt) Ltd. Polymer House E-110 Main Boulevard Defence, Lahore Cantt, Lahore.
153	3920.4990	Polyvinyl Chloride plates, sheets,	Width 24" Thickness 50 to 500 Micron (PVC)	--	--	Lucky Plastic Industries (Pvt) Ltd. Polymer House E-110 Main Boulevard Defence, Lahore Cantt, Lahore.
154	3920.5900	Polyacrylic, other, plates, sheets,	Width Acrylic 1.5mm to 12mm 6*4	--	--	Lucky Plastic Industries (Pvt) Ltd. Polymer House E-110 Main Boulevard Defence, Lahore Cantt, Lahore.
155	3920.6200 3920.6900	BOPET Film (All types i.e. transparent, chemical coated, metalized, etc.)	Having thickness of various micron	--	--	Novatex Ltd. Ground Floor, G&T Tower # 18, Beaumont Road, Civil Lines - 10, Karachi - 75530 Astro Plastics (Pvt) Ltd. 17-Banglore Town, Shahrah-e-Faisal, Karachi
156	3921.1200	Polyvinyl Chloride plates, sheets,	PVC Film	--	--	A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore
157	3921.1300	Polyurethane plates, sheets, film,	Polyurethane Sandwich Panels	Thickness from 60mm to 150mm	--	Pakistan Insulations Pvt. Ltd. 107 Business Avenue PECHS Block-6, Karachi
158	3921.9090	Tooth paste tube Laminate	100-125 mic PE+Co-polymer laminated to foil 20-40 mic + PE + Co-polymer both sides. (Total thickness 290 to 300 mic)	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi
159	3923.1000	Boxes	Boxes, plastic, for conveyance or packing	--	--	Polycon Pakistan Pvt. Ltd. 62-CMA Officers Colony, 4th Street, Lahore Cantt. Lahore
160	3923.5000	Plastic caps	Plastic caps	--	--	International Caps Company 121/A, Ishaqabad, Sir Shah Mohd Suleman Road, Karachi-75900

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
161	3923.9010	Preforms	Made from PET Resin	All ranges including and above 11.5 grams.	--	Gatron (Industries) Limited 11th Floor, G&T Tower No. 18, Beaumont, Civil Lines – 10, Karachi. □
162	3924.9000	Cans, plastic (Household)	10 ml to 40 litres.	--	Hydensity polyethylene,ABS, PP	Plasticans (Pvt) Ltd. 120/3 Industrial Estate, Kot Lakhpat Lahore
163	4003.0000	Rubber, reclaimed	PS: 1915 - 1987 ISO: 4633/ 1 - 1983	Natural or Synthatic rubber	--	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi
164	4009.1190	Pipes and tubing	All types, un-hardened vulcanized rubber excluding bearing API certification., Rubber hoses	--	--	Longman Mills, Lahore 14-N Industrial Area Gulberg-II Lahore-45660 Samad Rubber Works Ltd. 409-Ferozepur Road P.O. FC College Lahore-54600 Darson Rubber Works Ltd., Darson Road, G.T. Road P.O. Box 5, Wazirabad – 52000
165	4009.1200	Hoses, vulcanised rubber,	ASTM & SAE, with Fittings, excl hard rubber, with their fittings	--	--	Darson Industries Private Limited Darson Road, P O Box 5 Wazirabad-52000
166	4009.1200	Hoses, vulcanised rubber, not reinforced or Combined	Size ½", 3/8", length 3', 3.5', 4', 6' available for Nat Gas LPG, confirming to BS 669-1:1989 [Excluding High Pressure Hoses of over 30 PSI & having API Certification]	--	--	Tesla Industries Pvt. Ltd. Plot No. 81-F, St. 6, I-10/3 Islamabad
167	4009.1200	Hoses, vulcanised rubber,	ASTM & SAE, not reinforced or Combined	--	--	Darson Industries Private Limited Darson Road, P O Box 5 Wazirabad-52000
168	4010.1900	Conveyors Belts and Transmission Belts (of Vulcanized Rubber)	Belts from 25mm in width to 2300mm width with any length and thickness and number of plies. (as per customers requirements)	--	Heat Resistant and abrasion resistant	Chawla Rubber & Plastic Ind. (Pvt) Ltd. 43-Industrial Area, Township, Kot Lakhpat, Lahore
169	4011.1000	Tyres, rubber, pneumatic	4.50-12wt, 6.00-16f wot, 6.00-16 Jeep ND WOT , motor cars	--	--	Mian Tyre & Rubber Co. Limited. 29.5 Km, Sheikhpura Road Lahore
170	4011.1000	Tyres	450-12, 600-12, 615-13, 165-13, motor cars/ station wagons	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar
171	4011.1000	Tyres	145/70R12, 145/80R12, 155/70R12, 165/70R12, 145/80 R13, 155/80R13, 185/70R13, 165/80R13, 165/65R13, 175/70R13, 185/65R14, 185/60 R15, 175/70R14, 195/65 R14, 195/65 R15, 175/65R15, 205/55R16, 215/55R16 for Motor Cars	--	--	The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
172	4011.2010	Tyres	4.50-12, 6.50-14, , 6.00-16, 6.50-16, 7.00-16, 7.50-16, 145R12, 185R14, 195R14, 7.50 R16, 195R15, 205/70R15 for Light Trucks Commercial Vehicles	--	--	The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
173	4011.2010	Tyres	450-12 8PR, 600-14, 650-14, 750-16, for light trucks - 4.50-12, 6.50-14, 6.00-16, 1.75/80-16, 6.50-16, 7.50-16, 185 R 14C, 195 R 14C, 750 R 16C	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar
174	4011.2090	Tyres	350-8, 400-8 for Rickshaw, Scooter	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar
175	4011.2090	Tyres	8.25-20, 9.00-20, 10.00-20, 11.00-20 12.00-20, for heavy Trucks/Buses & Lorries	--	--	The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
176	4011.4000	Tyres	2.25/17 Front/Rear 2.25/17 Front/nylo grip 2.50/17 Front/Rear 2.50/17 R Panther Power and Mt1 2.50/17 Trail Plus 2.50/18 Front/Rear, Nylo Grip, Power, Power Mt1, Trial Plus, Trail Enduro 2.75/17 Rear, Rear Laser 2.75/18 Front, Rear, Trail 3.00/17 Rar, Panther Power, Trail Plus, trail Enduro 3.00/18 Rear, Trail, Trail Enduro 3.5/8 Scooter 3.5/10 Scooter, and Scooter Laser 4.00-8 Front and Rear, for motorcycles - 225-17, 250-17, 300-17, 250-18, 275-18	--	--	Mian Tyre & Rubber Co. Limited. 29.5 Km, Sheikhpura Road Lahore
177	4011.4000	Pneumatic Tyres	For 2/3 Wheelers (Motorcycles, Scooters, Auto Rickshaws, Motorcycles Rickshaws, wheel barrow) 2.25-17, 2.50-17, 2.50-18, 3.00-17, 4.00-8 135-10 for Motorcycles & Rickshaws/Scooters	--	--	Service Industries Ltd. Service House-2, Main Gulberg Lahore The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
178	4011.5000	Tyres, rubber, pneumatic	Panther Special 4 PR delux and super Panther Power Road Life and Grip Panther nylon Delux Panther Sports Panther BMX Bodyline and Black Panther BMX Red and Black, for bicycles	--	--	Mian Tyre & Rubber Co. Limited. 29.5 Km, Sheikhpura Road Lahore
179	4011.5000	Pneumatic Tyres	bicycles (28" x 1.50"); (26" x 2.125"); (26" x 2.125"); (16" x 1.75"); (26" x 2.125"); (26" x 1.95"); (24" x 1.95"); (20" x 2.125"); (16" x 2.125"); (26" x 1.3/8"); (24" x 1.3/8"); (20" x 1.3/8")	--	--	Service Industries Ltd. Service House-2, Main Gulberg Lahore
180	4011.6100	Tyres	5.50-16, 6.00-16, 7.50-16, 7.50-20, 12.4/11-28, 14.9/13-28, 16.9/14-30, 18.4/15-30 for Agricultural Vehicles	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
181	4011.6900	Tyres	700-15 ND, 700-16 JS, 600-16 ND, for jeeps	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar
182	4011.9200	Tyres	5.50-16, 6.00-16, 7.50-16, 7.50-20, 12.4/11-28, 14.9/13-28, 16.9/14-30, 18.4/15-30 for Agricultural Vehicles	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
183	4011.9900	Tyres	5.50-16, 6.00-16, 7.50-16 , 7.50-20, 12.4/11-28, 14.9/13-28, 16.9/14-30, 18.4/15-30 for Agricultural Vehicles	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
184	4011.9900	Inner Tubes of Rubber	4.50-12, 6.50-14, 7.00/7.50-16, 8.25-20,9.00-20, 10.00-20,11.00-20, 12.00-20 for (light & heavy) buses, lorries or Trucks	--	--	The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
185	4013.1020	Inner Tubes of Rubber	12,13,14,16 , 450-12, 600-12, 615-13, 165-13 for vehicles	--	--	Mian Tyre & Rubber Co. Limited. 29.5 Km, Sheikhpura Road Lahore United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar
186	4013.2000	Inner Tubes of Rubber	28*1-1/2,28*1-3/8 24*1-3/8,26*2-1.25 for bicycles	--	--	Mian Tyre & Rubber Co. Limited. 29.5 Km, Sheikhpura Road Lahore Service Industries Ltd. Service House-2, Main Gulberg Lahore
187	4013.9010	Inner Tubes of Rubber	5.50-16, 6.00-16, 7.50-16 for Agricultural vehicles	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
188	4013.9020	Inner Tubes of Rubber	2.25-17, 2.5-75/17, 2.5-75/18, 3.00-17, 3.00-18, 3.5-8, 3.5-10, 4.00-8, 2.50-17, 3.00-17, 2.50-18, 2.75-18 for motorcycles and scooters	--	--	Mian Tyre & Rubber Co. Limited. 29.5 Km, Sheikhpura Road Lahore United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar The General Tyre & Rubber Co. of Pakistan Ltd. H-23/2, Landhi Industrial Trading Estate, Landhi, Karachi
189	4013.9030	Inner Tubes of Rubber	600-14, 650-14 for Jeep	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar
190	4013.9090	Inner Tubes of Rubber	350-8, 400-8 for Rickshaws and Scooters	--	--	United Rubber (Pvt) Ltd. 70-Industrial Estate Jamrud Road Peshawar Service Industries Ltd. Service House-2, Main Gulberg, Lahore
191	4201.0000	Belts or Belting of rubber and/or leather excluding those conforming to API specifications.	Conforming to BSS-351 & 490 (excluding grades, N 17, M 24 & above) Also conforming to DIN 22102 (excluding grades; M, N and above)	--	--	Premier Rubber Belting Mfg. Co. C-13, SITE Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
192	4410.9000	Chipboard	Board made of chips of wood	Sheets size 8*4 density 600	Glue Urea Formaldehyde	Chenab Particle Board (Pvt) Ltd. 30.k.m.Gujranwala Road, Alipur Chatta,
193	4411.1200 4411.1300 4411.1400	Medium Density Fiber (MDF) / Lamination Board	Size 8 x 4 (standard) Other sizes as per customer requirement	--	--	Chenab Particle Board (pvt) Ltd. 30.k.m.Gujranwala Road, Alipur Chatta, Al Noor Sugar Mills Ltd. Shahpur Jahania, Taluka Moro, District Naushero Feroze Peshawar Particle Board Ind. (Pvt) Ltd. 16-17, Industrial Estate, Jumrud Road, Peshawar Ciel Wood Works (Pvt) Ltd. 17, Ind. Estate, Jumrud Road, Peshawar Frontier Green Wood Industries (Pvt) Ltd. W 28, 29 and plot No. 14, 27 Industrial Estate, Jamrud Road, Peshawar Garibsons (Pvt) Ltd. C69-71, 12th Commercial Street Phase 2 Ext, DHA Karachi Taj Board Near Taj Ghee Sakha Kot Road, Sher Ghar, KPK Hamza Board
194	4819.3000	Sacks, paper	Papersacks made from Extensible / Clupak and Non Extensible Sack Kraft Paper base width 40 cm or more	--	--	Pakistan Papersack Corporation Limited Plot No. 749-749A, Zila Moza Pathra, Tehsil Hub, District Lasbella, Hub Baluchistan
195	4908.1000	Transfers, vitrifiable, excluding window transparencies	Stickers, Transfer Labels (Decalcomania) and Chassis Aluminium ID Plates.	--	--	Allco Transfer Printers (Pvt) Ltd. 3 Haider Chamber, 11-B, Rizvia Society, Karachi-74600
196	4908.9000	Decalcomanias, excluding vitrifiable decalcomanias	Transfer Labels (Decalcomania)	--	--	Allco Transfer Printers (Pvt) Ltd. 3 Haider Chamber, 11-B, Rizvia Society, Karachi-74600
197	5402.3300	Yarn, textured, of polyesters	Polyester Filament Yarn	--	--	Gatron (Industries) Limited 11th Floor, G&T Tower No. 18, Beaumont, Civil Lines – 10, Karachi. □
198	5402.4700	Yarn, oriented polyester, Single, untwisted	Polyester Filament Yarn	--	--	Gatron (Industries) Limited 11th Floor, G&T Tower No. 18, Beaumont, Civil Lines – 10, Karachi. □
199	5503.2010	Fibres, staple, polyester	1.2 Danier, not carded or combed	Tensile Strength = 7-7.25 Breaking Load = 8-8.5	PET = 99.57 Textile Finish = 0.13 Moisture = 0.13	ICI Polyester Fibres Business 63 -Mozang Road Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
200	5603.1400	Non Woven Fabric of manmade filaments (Geotextile)	Weight 200-1500 gm/ m ² ; Width (max): 3 meter	Material: Polyester/ Polypropylene; Type: Needle punch non woven fabric; Weight/ Density: 150gsm and above; Thickness: 1-20mm; Color: As per requirement; Width: 3 meter max; Length: As per requirement.	--	Unik Fabrics (Pvt) Ltd. 401, Deh Drigh, Rafa-Aam Society Malik Halt, Karachi
201	5606.0000	Yarn,chenille, including flock chenille	Chenille Yarn Ecru and Dyed	Standard	Acrylic, Blended	Khawaja Woollen Mills (Pvt) Ltd. 4-H, Gulberg-III, Lahore-54660
202	5806.3200	Ribbons, nylon, narrow woven	Hook and Loop Fastener tapes, made from 100% nylon material and available in widths 10mm up to 100mm	--	--	NFU Industries (PVT) Ltd. 20 Km, Raiwind Road, Lahore.
203	5901.9010	Buckram	Interlining	--	--	Aruj Garment Accessories Ltd Aruj House, 1 KM Raiwind Road Lahore
204	5903.1000	Textile fabrics impregnated, coated, covered or laminated with plastics, (Artificial Leather).	PVC Synthetic Leather	--	--	A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore
205	5903.2000	Textile fabrics impregnated, coated, covered or laminated with plastics, (Artificial Leather).	i) PU Synthetic Leather	--	--	A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore
206	5903.9000	Textile fabrics impregnated, coated, covered or laminated with plastics, (Artificial Leather).	PU/ PVC Synthetic Leather	--	--	A.T.S Synthetic (Pvt) Ltd. 1-2 Asad Chamber Umer Market, McLeod Road, Lahore
207	5909.0000	Hose piping, textile material	Fire Hose, Made from High quality Polyester Yarn, woven on Circular Looms, and Rubberlined	Working Pressure 16 bar, Brusting Pressure 32 bar	Polyester 25%, Rubber 75%	National Resources Corporation 3/E-III, Commercial Area, Nazimabad, Karachi
208	6804.1000	Millstones for Milling, grinding or pulping	Various grit sizes from Coarse (mesh 14) to fine (mesh 320 & above) with Hardness from soft (G) to Hard (R) In Vitrified & Resinoid BondIness.	--	--	Grind Wheel (Pak) Ltd. 2nd Floor, Karachi Chambers, Hasrat Mohani Road, Karachi
209	6804.1000	Millstones for Milling, grinding or pulping	Grinding Disc. Dia x Thickness 4" x 1/4 4 1/2" x 1/4 5" x 1/4 7" x 1/4 9" x 1/4 Steel/Stone cutting Disc. Dia x Thickness 4" x 1/8 4 1/2" x 1/8 5" x 1/8 7" x 1/8 9" x 1/8 12" x 1/8 14" x 1/8 16" x 1/8	Working RPMs from 3000 to 14000 M/S	Abrasive + Resin + Glass Fiber	Mughal Corporation (Pvt) Ltd. Sharif pura, G.T.Road,Gujranwala.
210	6805.1000	Cloth, abrasive	Cloth and paper backed abrasives products.	Grade, Strength etc	Silicon Carbide and Aluminum Oxide Coated on Latex paper cloth	Falcon Abrasives (Pvt) Ltd. Plot No. 36, Sector No. 28, Korangi Industrial Area, Karachi.
211	6805.3000	Leather, abrasive	i) PVC Synthetic Leather, ii) Polyurethane Synthetic Leather iii) Transparent Plastic Sheet iv) Flocked Fabric v) Jersey Fabric, etc.	--	--	Crescent Art Fabrics (Pvt) Ltd. 23rd Kilometer, Lahore/Sheikhupura Road, Sheikhupura

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
212	6806.1000	Wool,rock, in bulk, sheets or roll	Density : 60,80,100 Thickness : 50,75,100 ASTM C 592	Diameter of fibres:4-10 micron, Length of fibres: avg. 200 MM Shot contents :max. 15% (0.2 MM, mesh): Loss on ignition:0% Water content:0% Sulphur content:0% Asbestos content :0% Air permeability 70 Kg / CM vf 2 100 Kg / CM 1.1 140 Kg / CM 0.6	SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , CaO, MgO, Na ₂ O, K ₂ O	Incom Rockwool (Pvt) Ltd. Shernaz House, 8 West Wharf Road, karachi
213	6806.1000	Wool,rock, in sheets or roll	ASTM C592	Rockwool/mineral Wool Blankets, Pipe Sections and Panels Density Upto 150Kg/m ³	--	Pakistan Insulations Pvt. Ltd. 107 Business Avenue PECHS BLock-6, Karachi
214	6809.1100	Gypsum Board	4'x8' 9mm & 12mm	Sheet	Paper, Gypsum, Starch & Foam	DFB Gypsum Industries, Suit No. 105, 1st Floor, Business & Finance Center, II Chundrigar Road, Karachi
215	6809.1900	PVC Laminated Gypsum Ceiling Tiles	2'x2' 7.5mm & 9mm 2'x4' 7.5mm & 9mm	Tile	Paper, Gypsum, Starch, PVC Sheets and Glue	DFB Gypsum Industries, Suit No. 105, 1st Floor, Business & Finance Center, II Chundrigar Road, Karachi
216	6810.9100	Door-frames, prefabricated, concrete, cement	Door frames roll formed	HR 1/2	Commercial grades	Irshad Ahmad & Bros. 145 Loha Market Lahore
217	6811.4000	Cable Conduits of asbestos cement	PS: 558 - 1991 (R) ISO: 881 - 1980	Resistance to corrosion, Resistance against abrasion hydraulic characteristics	Hydrous Magnesium Silicates 3MgO 2SiO ₂ 2H ₂ O	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi
218	6811.4000	Pipe Fittings of asbestos cement	PS 2942 - 1990 ISO 393/4 - 1986, ISO 393/2 - 1986 (E)	Corrosion free, Good Heat insulation, Fire retardant Termite Proof, Quick & Easy installation	Hydrous Magnesium Silicate 3MgO 2SiO ₂ 2H ₂ O	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi
219	6811.4000	Joints of asbestos cement	PS: 430 - 1988 (R) ISO 393 part 1&2 1983,1986, ISO 8101-1980, ISO 737-1984	Corrosion Free, Good Heat insulation, Fire retardant, Termictc proof, Quick & Easy installation	Hydrous Magnesium Silicate 3Mgo - 2Sio2 2H2o	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi
220	6811.4000	Pipes of asbestos-cement	PS: 579 - 1982 (R) ISO 396/ 1 & 2 - 1980 (E)	Corrosion Free, Good Heat insulation, Fire retardant, Termictc proof, Quick & Easy installation	Hydrous Magnesium Silicate 3MgO - 2SiO ₂ 2H ₂ O	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi
221	6811.8900	Cable Conduits of Cellulose fibre-cement	PS: 428 - 1984 (R) ISO 160 - 1980,ISO 2785-1986,ISO 4483-1979	ISO 4480-1979,ISO 4482-1979,ISO-7336-1984 Resistance to corrosion, Resistance against Abrasion Hydraulic Characteristics	Hydrous Magnesium Silicate 3MgO 2SiO ₂ 2H ₂ O	Dadex Eternit Ltd. Dadex House, 34-A/1, Block-6, P.E.C.H.S. Shahrah-e-Faisal Karachi
222	6812.9900	Gaskets of asbestos	Asbestos	--	Asbestos + Calcium + Silicon	Sheikh Corporation 52/3 Lytton Road, Lahore.

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
223	6902.1010	Chrome Magnesite Bricks	Chrome Magnesite Bricks	Open porosity (%):16 max Apparent Density(gm / cm ³):2.95 min. Cold Crushing Strength (kg/cm ²):700 min Temp. of Deformation :1500 °C Under Load of 2Kgf/cm ² (°C) Thermal Shock Resistance at:2 thermal 1300 °C (Water Cooling) cycles min. Curvature (Bending Arrow):1 mm max Breakage of Angles :5 mm max Breakage of Ribs (sides):3 mm max	MgO (%) :50 min Cr ₂ O ₃ (%) :20 max SiO ₂ (%) :03 max	Banbhore Ceramics Industries Plot DSU-18, Pakistan Steel Down Stream Industrial Estate Bin Qasim Karachi
224	6902.1010	Refractory bricks, blocks, tile & similar refractory ceramic construction goods	High Alumina castable/refractory for temperature upto 1600 °C - High wear & Alkali resistant silicate refractory. - Magnesite Refractory - High Temperature Zircon Refractory.	--	--	Marshal Ceramics PO Box.77, K.M.8.9, Lahore Side G. T Road Gujranwala General Refractories Landhi Industrial Area, Karachi Commander Ceramics P.O. Box 514, G.T. Road Km 11/12 Atawa, Gujranwala
225	6902.1010	Tar Bonded Dolomite Bricks	Al ₂ O ₃ 40-60% Min or 28% Min. Refractoriness °C 1730Min, 1670 Min., Deformation Temperature (at load of 2 Kg/cm ²) °C 1400 Min.	--	CaO	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
226	6903.1000	Crucibles	--	--	--	Carborundum Crucibles Industries 14-A Davis Road Lahore Kundun Crucibles Industries 14 KM, Sheikupura Road, Lahore Asian Cruciibles Industries 14 KM Sheikupura Road Lahore
227	6903.2010	Cold tundish lining sets, slide gate refractory sets & nozzles	Cold Tundish Lining	Loss on Ignition (%) :07 max Bending Strength (kg / cm ²):30 min Humidity (%) :0.5 max Bulk Density (gm / cm ³): 1.15 min Apparent Porosity(%):45 – 55 Refractoriness(°C):1620 min	SiO ₂ (%):90 min. Al ₂ O ₃ (%):02 max. CaO (%):02 max. MgO(%):01 max. Fe ₂ O ₃ (%):01 max	Banbhore Ceramics Industries Plot DSU-18, Pakistan Steel Down Stream Industrial Estate Bin Qasim Karachi
228	6903.2010	Cold tundish lining sets, slide gate refractory sets & nozzles	Nozzles	Bulk Density(gm / cm ³):3.15 min Apparent Porosity (%):16 max Cold Crushing Strength (kg/cm ²):900 min	Al ₂ O ₃ (%):95 min Fe ₂ O ₃ (%):0.2 max	Banbhore Ceramics Industries Plot DSU-18, Pakistan Steel Down Stream Industrial Estate Bin Qasim Karachi
229	6903.2010	Cold tundish lining sets, slide gate refractory sets & nozzles	Well-Block	Bulk Density(gm / cm ³):2.60 min Apparent Porosity (%) :16 max Cold Crushing Strength (kg/cm ²):900 min	Al ₂ O ₃ (%): 93 min K ₂ O(%):0.5 max Na ₂ O(%) :0.1 max Fe ₂ O ₃ (%):0.2 max	Banbhore Ceramics Industries Plot DSU-18, Pakistan Steel Down Stream Industrial Estate Bin Qasim Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
230	6903.2010	Cold tundish lining sets, slide gate refractory sets & nozzles	Slide Gate Plates	Apparent Porosity (%):2.0 – 6.0 Bulk Density (gm / cm ³):3.18 - 3.22 Cold Crushing Strength):1000 - 1100 (Kg / cm ²)	Al ₂ O ₃ (%):73 – 76 Carbon(%):05 – 07 ZrO ₂ (%):08 – 11	Banbhore Ceramics Industries Plot DSU-18, Pakistan Steel Down Stream Industrial Estate Bin Qasim Karachi
231	6907.1000	Tiles, cubes and similar articles, whether or not rectangular, the largest surface area of which is capable of being enclosed in a square the side of which is less than 7cm	All types of unglazed tiles, cubes and similar articles the side of which is less than 7cm or 2.755 inches	Unglazed tiles are just biscuit of tiles without any finishing process of glazing or polishing.	--	Master Tiles & Ceramics Ind. Ltd. G.T. Road, Gujranwala Shabbir Tiles & Ceramics Ltd. 15th Mile Stone, National Highway, Landhi, Karachi – 75120 Karam Ceramics Limited B-C 6, Block – 5, Scheme – 5, Kehkashan, Clifton, Karachi Sonex Tiles & Ceramics Ind. Ltd. 19-K.M.,Lahore Side, (Near Kamoke), G.T.Road, Gujranwala Frontier Ceramics Ltd 29-Industrial Estate, Jamrud Road, Peshawar. Swat Ceramcis (Pvt) Ltd. Nowshehra
232	6907.9000	All Types of Unglazed tiles, cubes and similar articles the side of which is more than 7cm or 2.755 inches	Unglazed tiles are just biscuit of tiles without any finishing process of glazing or polishing	--	--	Master Tiles & Ceramics Ind. Ltd. G.T. Road, Gujranwala Shabbir Tiles & Ceramics Ltd. 15th Mile Stone, National Highway, Landhi, Karachi – 75120 Karam Ceramics Limited B-C 6, Block – 5, Scheme – 5, Kehkashan, Clifton, Karachi Sonex Tiles & Ceramics Ind. Ltd. 19-K.M.,Lahore Side, (Near Kamoke), G.T.Road, Gujranwala Frontier Ceramics Ltd 29-Industrial Estate, Jamrud Road, Peshawar. Swat Ceramcis (Pvt) Ltd. Nowshehra
233	6908.1000	Mosaic cubes, Porcelain Tiles, ceramic	Glazed/ plain, Wall and Floor Tiles	--	--	Emco Industries Limited 2nd Floor, Saudi Pak House, 14-Egerton Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
234	6908.1000	Tiles, cubes and similar articles, whether or not rectangular, the largest surface area of which is capable of being enclosed in a square the side of which is less than 7cm	All types of glazed tiles, cubes and similar articles the side of which is less than 7cm or 2.755 inches	Glazed tiles mean biscuit with finishing process of either glazing or polishing.	--	<p>Master Tiles & Ceramics Ind. Ltd. G.T. Road, Gujranwala</p> <p>Shabbir Tiles & Ceramics Ltd. 15th Mile Stone, National Highway, Landhi, Karachi – 75120</p> <p>Karam Ceramics Limited B-C 6, Block – 5, Scheme – 5, Kehkashan, Clifton, Karachi</p> <p>Sonex Tiles & Ceramics Ind. Ltd. 19-K.M.,Lahore Side, (Near Kamoke), G.T.Road, Gujranwala</p> <p>Frontier Ceramics Ltd 29-Industrial Estate, Jamrud Road, Peshawar.</p> <p>Swat Ceramcis (Pvt) Ltd. Nowshehra</p>
235	6908.9010	Tiles	Porcelain Tiles	--	--	<p>Emco Industries Limited 2nd Floor, Saudi Pak House, 14-Egerton Road, Lahore</p> <p>Master Group of Industries GT Road, Gujranwala</p>
236	6908.9010	Tiles	All types of glazed tiles and similar articles the side of which is less than 7cm or 2.755 inches	Glazed tiles mean biscuit with finishing process of either glazing or polishing.	--	<p>Master Tiles & Ceramics Ind. Ltd. G.T. Road, Gujranwala</p> <p>Shabbir Tiles & Ceramics Ltd. 15th Mile Stone, National Highway, Landhi, Karachi – 75120</p> <p>Karam Ceramics Limited B-C 6, Block – 5, Scheme – 5, Kehkashan, Clifton, Karachi</p> <p>Sonex Tiles & Ceramics Ind. Ltd. 19-K.M.,Lahore Side, (Near Kamoke), G.T.Road, Gujranwala</p> <p>Frontier Ceramics Ltd 29-Industrial Estate, Jamrud Road, Peshawar.</p> <p>Swat Ceramcis (Pvt) Ltd. Nowshehra</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
237	6908.9090	Cubes	All types of cubes and similar articles the side of which is less than 7cm or 2.755 inches	Glazed tiles mean biscuit with finishing process of either glazing or polishing.	--	Master Tiles & Ceramics Ind. Ltd. G.T. Road, Gujranwala Shabbir Tiles & Ceramics Ltd. 15th Mile Stone, National Highway, Landhi, Karachi – 75120 Karam Ceramics Limited B-C 6, Block – 5, Scheme – 5, Kehkashan, Clifton, Karachi Sonex Tiles & Ceramics Ind. Ltd. 19-K.M., Lahore Side, (Near Kamoke), G.T.Road, Gujranwala Frontier Ceramics Ltd 29-Industrial Estate, Jamrud Road, Peshawar. Swat Ceramcis (Pvt) Ltd. Nowshehra
238	7002.3910	Unworked Glass Rods	(Neutral Glass Tubing) U.S.P. Type I	--	SiO ₂ , BaO, CaO, Al ₂ O ₃ , Na ₂ O, K ₂ O, B ₂ O ₃ , Fe ₂ O ₃ , TiO ₂	Cornpak Ltd. Plot Nos. 11 & 26, Sector 20, Korangi Industrial Area Karachi - 74900
239	7010.1000	Glass Ampoules for packing or conveyance	United States Pharmacopoeia Neutral Type I Glass	--	SiO ₂ , BaO, CaO, Al ₂ O ₃ , Na ₂ O, K ₂ O, B ₂ O ₃ , Fe ₂ O ₃ , TiO ₂	Cornpak Ltd. Plot Nos. 11 & 26, Sector 20, Korangi Industrial Area Karachi - 74900
240	7019.4000	Woven Fabrics of glass fibre rovings	Fiberglass Products	--	--	Fibre Tech 28-E, Safe way House, South Park Avenue, Phase 2, Ext DHA, Karachi
241	7019.9090	Glass Reinforced Epoxy (GRE) Pipes	D-2996	As per Standard	As per Standard	Business & Engineering Trends 100-A Wazir Ali Road, Upper Mall Opposite Lahore Gymkhana Lahore
242	7019.9090	Fiber Glass Tank	D-4097-01 D-3299-00	As per Standard	As per Standard	Business & Engineering Trends 100-A Wazir Ali Road, Upper Mall Opposite Lahore Gymkhana Lahore
243	7020.0090	Glass Reinforced Polyester (GRP) Pipes	upto 40 ft.; dia upto 2600mm (102") PN6-24 bars for Sewerage and water drinking lines.	Food Grade	--	Creative Engineering (Pvt) Ltd. 160/ S, Q.I.E. Kot Lakhpat Lahore
244	7020.0090	Glass Reinforced Polyester (GRP) Pipes	ASTM D-351704 D3262-04 D-3754-04	As per Standard	As per Standard	Business & Engineering Trends 100-A Wazir Ali Road, Upper Mall Opposite Lahore Gymkhana Lahore
245	7201.1000	Pig Iron, non-alloy, excluding that of Foundry Grade	C=4.3% (Max), Si=0.5% (Min) P=0.16% (Max), S & Mn=1% each Notches=2 (Min), Wt upto 45 Kg. All types of Conversion Pig Iron (CPI)	Pig Weight 45 Kg (Max), Width of Pig 115-200 mm, Thickness of Pig 60-100mm, Number of Notches 3, Packing in loose.	Sulphur more than 0.06% in FPI make it special & in CPI more then 0.07% will make it special	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
246	7202.1100	Ferro Manganese High Carbon	Mn: 60% & above C: 6-7% Si: 3% max	--	--	Fine Steel (Mughal Steel Group) 17 KM, Sheikhpura Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
247	7202.2100	Ferro Silicon	FeSi 75 Al 2	Crystallized lumps of size 10-80mm + 10%	Silicon 72-80% Aluminium 1-3% Carbon 0.2% max Phosphorus 0.05% max Sulphur 0.04%	Al-Abbas Sugar Mills Ltd. 55 Km, Main National Highway, Dhabeji, Distt, Thatta
248	7202.2100 7202.2900	Ferro Silicon	Si: 55% & above	--	--	Fine Steel (Mughal Steel Group) 17 KM, Sheikhpura Road, Lahore
249	7202.3000	Ferro Silicon Manganese Low Carbon	Mn: 60% & Above C: 0.5 - 2%	--	--	Fine Steel (Mughal Steel Group) 17 KM, Sheikhpura Road, Lahore
250	7202.3000	Ferro Silicon Manganese High Carbon	Mn: 60% & above C: More than 2%	--	--	Fine Steel (Mughal Steel Group) 17 KM, Sheikhpura Road, Lahore
251	7202.4100 7202.4900	Ferro Chrome	Cr: 55% min. C: 2% min.	--	--	Fine Steel (Mughal Steel Group) 17 KM, Sheikhpura Road, Lahore
252	7204.5000	Ingots, from remelting scrap of iron or steel	Ms Billets Graded and Non Graded Type: Continuous closed casted on high frequency induction furnaces. Size: 4" width x 4" height x 12" length Specs: Being used in all sorts of steel structural products.	--	--	Khawaja Steels 4 KM, Dewan Road, Eminabad, Gujranwala
253	7206.1000	Ingots for re-rolling	Size 50X50 to 15X150mm Forgeable ingots in carbon steel upto 50 tons weight	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
254	7206.1000 7206.9000	Steel Ingots of Iron and non alloy steel in primary forms (excluding iron of heading 72.03)	Highly refined bottom poured ingots in flat rectangular, round and square sections. Weight : 500kg to 14,000kg. Manufactured as per international quality standards like JIS, Bohler, AISI, DIN, Chinese etc	Air cooled, stress relieved or annealed	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
255	7206.9000	Cast iron	Casting upto 28 tons (single piece) Steel (low alloyed) casting upto 32 tons (single piece)	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
256	7206.9000	i) Ingots and Billets of plain carbon steel, spring steels alloys for re-rolling. ii) Forgable Ingots of plain carbon steel iii) Semi-finished products of iron & non-alloy steel iv) Ingots & others primary forms of iron and non alloy steel (excluding iron of heading No.72.03)	50mm x 50mm to 150mm x 150mm Upto 50 tons weight (single piece) Ingots upto 9000 Kg weight cast in mould/ESR processed.	Structual Steel Billets, Reinforcement Bar Steel Billets, Wire Rod Steel Billesta, Cold Heading Steel Billets, Baling Hoops Steel Billets, Spring Steel Billets, Electrode Steel Billets, Seam-Less Steel Tubes & Pipes	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
257	7207.1110	Concast billets	Concast billets of square upto 150mm	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi
258	7207.1110 7207.1190	Con. Cast billet, square	Con Cast (CC Billet) Square : 110, 125 & 150 mm. Length : 4000 - 1200 mm	Cont cast billet as per international standard.	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
259	7207.1210	Con cast billet, Round	Con Cast (CC Billet) Round : Ø110 mm. Length : 4000 - 1200 mm	Cont cast billet as per international standard.	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
260	7207.1210	Structural steel billet for reinforcement steel bars	Size: 100mmx100mm, 120mm x 120mm and 150mmx150mm ASTM A-615 & BS 4449	--	Carbon (C) 0.200 to 0.250; Manganese (Mn) 1.250 Phosphorus (P) 0.00; Silicon (Si) 0.300; Sulphur (S) 0.002	S.H.Steel Re Rolling Mills Plot 50, St 12 I-9 Industrial Area Islamabad
261	7207.1910 7207.2010	Con. Cast Bloom	Con Cast (CC Bloom) Square : 230 mm. Length : 4000 - 1200 mm	Cont cast bloom as per international standard.	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
262	7207.1920 7207.1990 7207.2020 7207.2090	Steel Billets	Con Cast (CC Billet) Square : 110, 125 & 150 mm. Round : Ø110 mm Length : 4000 - 1200 mm. Hot rolled billet Square : 75, 80, 90, 100, 130 mm Length : 4000 - 6000 mm	Cont cast & rolled billet as per international standard.	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
263	7207.1990	Semi finished products of iron or non alloy steel.	Concast and hot rolled/square upto 150 x 150 mm and round upto 150 mm dia forged upto 200 mm rolling section.	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
264	7209.1510	Cold Rolled Coils Of a thickness 3 mm or more	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
265	7209.1590	Cold Rolled Coils Of a thickness 3 mm or more	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
266	7209.1610	Cold Rolled Coils Of a thickness exceeding 1 mm but less than 3 mm:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
267	7209.1690	Cold Rolled Coils Of a thickness exceeding 1 mm but less than 3 mm:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
268	7209.1710	Cold Rolled Coils Of a thickness of 0.5 mm or more but not exceeding 1 mm:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
269	7209.1790	Cold Rolled Coils Of a thickness of 0.5 mm or more but not exceeding 1 mm:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
270	7209.1810	Cold Rolled Coils Of thickness of less than 0.5 mm:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
271	7209.1890	Cold Rolled Coils Of thickness of less than 0.5 mm:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
272	7209.2510	Cold Rolled of a thickness of 3mm or more (Not in Coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
273	7209.2590	Cold Rolled of a thickness of 3mm or more (Not in Coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
274	7209.2610	Cold Rolled Of a thickness of exceeding 1 mm but less than 3 mm: (Not in Coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
275	7209.2690	Cold Rolled Of a thickness of exceeding 1 mm but less than 3 mm: (Not in Coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
276	7209.2710	Cold Rolled Of thickness of 0.5 mm or more but not exceeding 1 mm: (Not in Coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
277	7209.2790	Cold Rolled Of thickness of 0.5 mm or more but not exceeding 1 mm: (Not in Coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
278	7209.2810	Cold Rolled Of thickness of less than 0.5 mm: (Not in coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
279	7209.2890	Cold Rolled Of thickness of less than 0.5 mm: (Not in coils)	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
280	7209.9010	Cold Rolled Coils Of 3 mm and above:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
281	7209.9090	Cold Rolled Coils Of 3 mm and above:	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
282	7210.1210	Electrolytic Tin Plate	Tin plates, of types: - SRT1 to SR T5, having thickness 0.14 mm to 0.48 mm and width up to 965 mm - DR 8 to DR 10, having a thickness of 0.13 mm to 0.4 mm and width upto 965 mm Conforming to European Standards EN 10002-1-1990 & EN 10203 – 1-1991	--	--	Siddiqsons Tin Plate Limited D-53, Textile Avenue, S.I.T.E. Karachi – 75700
283	7210.1290	Electrolytic Tin Plate	Tin plates, of types: - SRT1 to SR T5, having thickness 0.14 mm to 0.48 mm and width up to 965 mm - DR 8 to DR 10, having a thickness of 0.13 mm to 0.4 mm and width upto 965 mm Conforming to European Standards EN 10002-1-1990 & EN 10203 – 1-1991	--	--	Siddiqsons Tin Plate Limited D-53, Textile Avenue, S.I.T.E. Karachi – 75700
284	7210.4110	Corrugated:	Hot Dip Zinc Coated Corrugated Sheets As per all International Standards	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
285	7210.4190	Corrugated:	Hot Dip Zinc Coated Corrugated Sheets As per all International Standards	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
286	7210.4910	Galvanized Steel	Hot Dip Zinc Coated Steel Sheets, Strips and Coils As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
287	7210.4990	Galvanized Steel	Hot Dip Zinc Coated Steel Sheets, Strips and Coils As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
288	7210.7020	Color Coated	Continuously organic coated (color coated) steel flat products including Color Coated Corrugated As per EN10169, JIS G-3312, ASTM A-755	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
289	7210.7090	Color Coated	Continuously organic coated (color coated) steel flat products including Color Coated Corrugated As per EN10169, JIS G-3312, ASTM A-755	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
290	7210.9010	Other	Continuously organic coated (color coated) steel flat products including Color Coated Corrugated As per EN10169, JIS G-3312, ASTM A-755	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
291	7210.9090	Other	Continuously organic coated (color coated) steel flat products including Color Coated Corrugated As per EN10169, JIS G-3312, ASTM A-755	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
292	7211.1310 7211.1390	Steel sheets & plates (Hot rolled)	Width : 950 mm - 1500 mm Length : Up to 3000 mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
293	7211.1410 7211.1490	Steel plates & sheets (Hot rolled)	Width : 1500 mm (max.) Length : Up to 12000 mm, depending upon thickness & width	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
294	7211.1900	Iron or Steel Strips	CR steel strips thickness range: 04 to 2.8mm sizes: available in all types and sizes	--	--	International Industries Ltd. 101 Beaumont Plaza, 10 Beaumont Road, Karachi
295	7211.1910	Cold Rolled Steel strips of thickness below 0.5mm and upto 100 mm wide	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
296	7211.1920	Cold Rolled Steel strips of thickness exceeding 0.5mm	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
297	7211.1920	Flat-rolled product of Iron/non-alloy steel	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi
298	7211.1990	Cold Rolled Steel strips of thickness exceeding 0.5mm	Cold Rolled Carbon Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
299	7211.1990	Flat-rolled product of Iron/non-alloy steel	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi
300	7212.3010	Galvanized Steel Strips of a width less than 600 mm	Hot Dip Zinc Coated Steel Sheets, Strips and Coils As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
301	7212.3090	Galvanized Steel Strips of a width less than 600 mm	Hot Dip Zinc Coated Steel Sheets, Strips and Coils As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
302	7212.5010	Color Steel Strips of a width less than 600 mm	Continuously organic coated (color coated) steel flat products including Color Coated Corrugated As per EN10169, JIS G-3312, ASTM A-755	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
303	7212.5090	Color Steel Strips of a width less than 600 mm	Continuously organic coated (color coated) steel flat products including Color Coated Corrugated As per EN10169, JIS G-3312, ASTM A-755	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
304	7212.6090	M.S. Flat Bar (Hot Rolled)	Range 32 to 300mm Length = 6 to 12 Mtr.	ASTM A-36, SR-24, AISI-1010 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi.
305	7213.1010	M.S. Bars, Deformed Bar & Tor Bar (Hot Rolled)	Range 25 to 60mm Length = 6 to 12 Mtr.	ASTM A-36, SR-24, G-60 & 40 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi. Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi
306	7213.1010	M.S. Bars, Deformed Bar & Tor Bar (Hot Rolled)	Range 25 to 60mm Length = 6 to 12 Mtr.	ASTM A-36, SR-24, G-60 & 40 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi. Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi
307	7213.1090	Hot Rolled Deformed Bars of Iron or non-alloy steel	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per standard	As per standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
308	7213.1090	Hot Rolled Deformed Bars of Iron or non-alloy steel	Hot Rolled; Diameter : 18 - 60 mm Length : 4000 - 8000mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpur Karachi
309	7213.1090	Hot Rolled Deformed Bars of Iron or non-alloy steel	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per standard	As per standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
310	7213.1090	Hot Rolled Deformed Bars of Iron or non-alloy steel	ASTM grade 60, BS4449, DIN 488	ASTM grade 60, Tensile Strength 450N/mm sq, Yield Strength 680N/mm sq	C> 0.32%, Mn >1.3%,	Dost Steels (Pvt) Ltd. 101 Chapal Plaza, Hasrat Mohani Road, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
311	7213.1090	Hot Rolled Bars and rods in irregularly wound coils of iron or non-alloy steel	Coils of deformed steel. Diameter of greater than 5.5 mm and less 12 mm. Coil weight of greater than 75 kg. Standard: JIG G 3506-80, ASTM A 615-82 (Containing indentations, ribs, grooves or other deformations produced during the rolling process)	longation greater then 20 %. Yield strength greater 30,000 psi.	C: 0.05 % to 0.50 % Mn: 0.30 % to 0.90 % Si: 0.04 % to 0.40 % P: greater than 0.03 % S: greater than 0.03 %	Frontier Foundry (Pvt) Ltd., Plot No. 166, Road B-7, Hayatabad Industrial Estate, Peshawar Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
312	7213.2010	Hot Rolled Bars & Rods of Non-Alloyed (Low/Plain Carbon) Steel (Irregular Wound Coils)	6.4 mm to 60 mm dia	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
313	7213.2010	M.S. Flat Bar (Hot Rolled)	Range 32 to 300mm Length = 6 to 12 Mtr.	ASTM A-36, SR-24, AISI-1010 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi.
314	7213.2090	Hot Rolled Bars & Rods of Non-Alloyed (Low/Plain Carbon) Steel (Irregular Wound Coils)	6.4 mm to 60 mm dia	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
315	7213.2090	Hot Rolled Bars and rods in irregularly wound coils of iron or non-alloy steel (Other, of free cutting steel)	Steel wire-rod (with no indentation or ribs). Diameter of greater than 5.5 mm and less 12 mm. Coil weight of greater than 75 kg. Standard: JIG G 3506-80, ASTM A 615-82	Elongation greater then 20 %. Yield strength greater 30,000 psi.	C: 0.05 % to 0.50 % Mn: 0.30 % to 0.90 % Si: 0.04 % to 0.40 % P: greater than 0.03 % S: greater than 0.03 %	Frontier Foundry (Pvt) Ltd., Plot No. 166, Road B-7, Hayatabad Industrial Estate, Peshawar Abbas Engineering Industries Ltd. DSU-2, Bin Qasim - Karachi – 75000 Abbas Steel Industries (Pvt) Ltd. Plot No. 8, Sector 19, Korangi Industrial Area Karachi
316	7213.9190	Steel Wire Rod	5.5mm to 12 mm SWRH 42A to 42 B, Medium Carbon ASTM. JIS, All International Spec's	Plain Round	SWRH 42 A to 42 B C% = 0.39/0.46, Mn% = 0.40/0.80, P% Max = 0.030, S % Max = 0.030, Si% = 0.15/0.30	Sandal Bar Rolling Mills (Pvt) Ltd. 1st Floor 48 Nishtar Road, Lahore Abbas Engineering Industries Ltd. DSU-2, Bin Qasim - Karachi – 75000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
317	7213.9990	Steel Wire Rod	5.5mm to 12 mm SWRH 42A to 42 B, Medium Carbon ASTM. JIS, All International Spec's	Plain Round	SWRH 42 A to 42 B C% = 0.39/0.46, Mn% = 0.40/0.80, P% Max = 0.030, S % Max = 0.030, Si% = 0.15/0.30	Sandal Bar Rolling Mills (Pvt) Ltd. 1st Floor 48 Nishtar Road, Lahore
318	7214.1010 7214.1090	Bars, iron or non alloy steel, forged, hot-rolled	Press forging: Shafts : Dia 700 mm (max.) Disc dia : 1500 mm (Max) Length : 8000 mm (max.) Weight : 12 mt. Radial Forging: Square, Round, & Varying section profile, axles of cross section 60 mm to 200 mm and flat 30 - 150 mm & width 60 - 180 mm, Length 4000 - 6000 mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
319	7214.1010 7214.1090 7214.2010	Steel Bars	Grade 60 5.5mm to 32mm ASTM. JIS, All International Spec's	Plain Round, Deform Bars & Twisted	Grade 60 C% = 0.28/0.33, Mn% = 1.15/1.35, P% Max = 0.045, S % Max = 0.045, Si% = 0.35 max, (C+Mn)/6% = 0.47/0.55	Sandal Bar Rolling Mills (Pvt) Ltd. 1st Floor 48 Nishtar Road, Lahore Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
320	7214.2010 7214.2090	Hot rolled, deformed bars	Hot Rolled; Diameter : 12 - 80 mm Length : 4000 - 6000mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Sandal Bar Rolling Mills (Pvt) Ltd. 1st Floor 48 Nishtar Road, Lahore Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
321	7214.2010	Rolled Profiles	Containing indentation ribs, grooves or Others deformations produced during the rolling process or twisted after rolling, 6.4 mm to 60 mm dia	--	--	Shalimar Steel, Karachi Razzaque Steel (Pvt) Ltd.Karachi Amreli Steels (Pvt) Ltd. D - 89, Shershah Road SITE Karachi
322	7214.2090	Rolled Profiles	Containing indentation ribs, grooves or Others deformations produced during the rolling process or twisted after rolling, 6.4 mm to 60 mm dia	--	--	Shalimar Steel, Karachi Razzaque Steel (Pvt) Ltd.Karachi Amreli Steels (Pvt) Ltd. D - 89, Shershah Road SITE Karachi
323	7214.3010	Steel Bars and Rods	Free cutting steel, 6.4 mm to 60 mm dia	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 Amreli Steels Ltd. D/89, Shershah Road

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
324	7214.3090	Steel Bars and Rods	Free cutting steel, 6.4 mm to 60 mm dia	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi
325	7214.3010 7214.3090	Bars of free-cutting steel, hot-rolled, forged	Diameter : 18 - 130 mm, Length 4000 - 6000mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
326	7214.9110	Steel Bars and Rods	Rectangular (other than square) Cross Section 6.4 mm to 60 mm dia	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi
327	7214.9110 7214.9190	Steel Flat Bars	Flat Bars Size : 6 x 40 mm - 20 x 110 mm Length 4000 - 6000mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi
328	7214.9190	Steel Bars and Rods	Rectangular (other than square) Cross Section 6.4 mm to 60 mm dia	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
329	7215.1010	Bars and Rods	5.5 mm to 12 mm in coils	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
330	7215.1090	Bars and Rods	5.5 mm to 12 mm in coils	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000 ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
331	7215.1010 7215.1090 7215.5010 7215.5090	Bars of free-cutting & other alloy steel, cold-formed/ finished	Cold drawn bars; Diameter : 12 - 80 mm Length : 4000 - 6000mm	Black surface	All type of carbon steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
332	7216.1000	Steel Sections (U, I or H) not further worked than hot- rolled, hot- drawn or extruded, of a height of less than 80 mm	- Thickness upto 12 mm (for HR materials), length upto 12 m Blank width 100-600 mm UTS = 275 N/mm ² Excl. those conforming to ASTM A-572 or equivalent. (Blank width 100 to 600 mm and UTS upto 65 Kg/mm ²) Thickness upto 10 mm & size 250 x 250 mm Thickness upto 10 mm and size upto 40 x 250 mm Upto IPN 450 Upto 450 x 450	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
333	7216.1000	Angles Shapes and sections of iron or non-alloy steel	U, I or H sections, not further worked than hot-rolled, hot drawn or extruded, of a height of less than 80mm	(ASTM A-36, SR-24, A572, SRJ 275)		Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
334	7216.2100	L sections, not further worked than hot-rolled, hot drawn or extruded, of a height of less than 80mm	L sections	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
335	7216.2100	Steel Sections, L, hot-rolled, hot-drawn	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
336	7216.2200	T sections, not further worked than hot-rolled, hot drawn or extruded, of a height of less than 80mm	T sections	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
337	7216.2200	M.S T-Section (Hot Rolled)	Range 50 x 50 to 150 x 150mm Length = 6 to 12 Mtr.	ASTM A-36, SR-24 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
338	7216.3110	U sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	U sections of a height exceeding 150mm Size: 304mm x 100mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
339	7216.3190	U sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	U sections of a height above 80mm upto 150mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
340	7216.3210	I sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	I sections of a height exceeding 200mm Size: 457mm x 175mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
341	7216.3290	M.S. I-Beam (Hot Rolled)	Range 100 x 50 to 300 x 150mm Length = 6 to 12 Mtr.	ASTM A-36 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
342	7216.3290	I sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	I sections of a height above 80mm upto 200mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
343	7216.3310	H sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	H sections of a height exceeding 250mm Size: 254mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
344	7216.3390	Steel Sections, H, hot-rolled, hot-drawn	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
345	7216.3390	M.S. H-Beam (Hot Rolled)	Range 100 x 100 to 200 x 200mm Length = 6 to 12 Mtr.	ASTM A-36 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
346	7216.3390	H sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	H sections of a height above 80mm upto 250mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
347	7216.4010	L or T sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	of a height exceeding 150mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
348	7216.4090	L or T sections, not further worked than hot-rolled, hot drawn or extruded, of a height of 80mm or more	of a height above 80mm upto 150mm	(ASTM A-36, SR-24, A572, SRJ 275)	--	Ishtiaq Steel Industry 43-B PECO Road Badami Bagh Lahore. ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
349	7216.5000	Steel Sections	- Thickness upto 12 mm (for HR materials), length upto 12 m Blank width 100-600 mm UTS = 275 N/mm ² Excl. those conforming to ASTM A-572 or equivalent. (Blank width 100 to 600 mm and UTS upto 65 Kg/mm ²) Thickness upto 10 mm & size 250 x 250 mm Thickness upto 10 mm and size upto 40 x 250 mm Upto IPN 450 Upto 450 x 450	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
350	7216.9100	Steel Sections	- Thickness upto 12 mm (for HR materials), length upto 12 m Blank width 100-600 mm UTS = 275 N/mm ² Excl. those conforming to ASTM A-572 or equivalent. (Blank width 100 to 600 mm and UTS upto 65 Kg/mm ²) Thickness upto 10 mm & size 250 x 250 mm Thickness upto 10 mm and size upto 40 x 250 mm Upto IPN 450 Upto 450 x 450	--	--	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
351	7217.1000	Wire, Iron or non-alloy steel, not plated or coated,	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
352	7217.2000	Zinc or Zinc Alloy Coated Wire for armouring of power cables/ Zinc Coated Steel Wire for ACSR/ Galvanized Wire	BS EN10257-1, ASTM A-164, ASTM B633, ASTM A121, ASTM B498, BS 4565, BS 3533	As per Standard	As per Standard	Pakistan Wire Industries E-51, Textile Avenue, SITE, Karachi
353	7218.1000	Ingots & Billets in primary forms, stainless steel	Highly refined bottom poured ingots in flat rectangular, round and square sections. Weight : 500kg to 14,000kg. Manufactured as per international quality standards like JIS, Bohler, AISI, DIN, Chinese etc.	Air cooled, stress relieved or annealed, bottom poured ingots	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
354	7218.9100	Stainless Steel Ingots	- Ingots and other primary forms - Of rectangular (Other than square cross section)	--	--	Mughal Steel 77 K.M. Sheikhpura Road, Lahore
355	7218.9100 7218.9900	ESR Steel Ingots	ESR Ingots M-300/400/600/750 Diameter 315, 395, 595, 720 mm Length : 3000 mm (max.), Weight : 9000 Kg. (max.)	Air cooled, stress relieved or annealed	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
356	7219.2200	Flat Rolled plates of stainless steel	Thickness upto 10 mm, width upto 700 mm and length upto 3 M (Although thicker plates, flats upto 60 mm are also made in non standard sizes) Conforming to all grades of AISI 300 & 400 series and equivalent	--	--	Mughal Steel 77 K.M. Sheikhpura Road, Lahore
357	7219.2390	Sheets of stainless steel	0.35-6 mm thick, width upto .75 M and length upto 3 M.	--	--	Mughal Steel 77 K.M. Sheikhpura Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
358	7219.2100 7219.2200 7219.2310 7219.2390 7219.3210 7219.3290 7220.1100 7220.1210 7220.1290	Flat-rolled product, stainless steel	Plates (Hot rolled) Thickness : 10 mm (min.), Width: 1500 mm (max.) Length ; 4000 - 6000 mm Sheets (Hot rolled) Thickness : 3 mm (max.), Width : 950 mm (max.) Length : 3000 mm (max.)	Black surface	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
359	7219.3100 7219.3210 7219.3290 7219.3310 7219.3390 7219.3410 7219.3490 7219.3510 7219.3590 7219.9010 7219.9090	Flat Cold Rolled Products of Stainless Steel Sheet & Coil	Width 500mm to 750mm of thickness 0.5mm to 4.75mm	Cold Rolled	Pure stainless steel	AHN Steel (Pvt) Ltd. 10-Abbot Road Lahore
360	7220.1290	Strips of stainless steel.	1-6 mm thick, width 200 mm	--	--	Mughal Steel 77 K.M. Sheikhpura Road, Lahore
361	7220.2010 7220.2090 7220.9010 7220.9090	Flat Cold Rolled Products of Stainless Steel Sheet & Coil	Width 500mm to 750mm of thickness 0.5mm to 4.75mm	Cold Rolled	Pure stainless steel	AHN Steel (Pvt) Ltd. 10-Abbot Road Lahore
362	7222.1100	Steel Round Bars	Diameter : 18 - 130 mm, Length 4000 - 6000mm	Black surface	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
363	7222.1900	Bars and rods of stainless steel	- Of circular cross section - Bars & rods, not further worked than cold formed or cold finished - Other bars & rods Dia 20 mm and above	--	--	Mughal Steel 77 K.M. Sheikhpura Road, Lahore G.M. Steel, Lahore
364	7222.1900	Bars of stainless steel, hot-rolled	Flat Bars Size : 6 x 40 mm - 20 x 110 mm Length 4000 - 6000mm	Black surface	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
365	7222.2000	Cold draw stainless steel bars	Cold drawn bars; Diameter : 12 - 80 mm Length : 4000 - 6000mm	Bright surface	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
366	7224.1000	Ingots	Highly refined cast ingots and billets in flat rectangular, round and square sections. Weight ranging from 500kg to 14,000kg. Manufactured as per international quality standards like JIS, Bohler, AISI, DIN, Chinese etc	Air cooled, stress relieved or annealed, bottom poured ingots	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
367	7224.9000	ESR steel ingots	ESR Ingots M-300/400/600/750 Diameter 315, 395, 595, 720 mm Length : 3000 mm (max.), Weight : 9000 Kg. (max.)	Air cooled, stress relieved or annealed	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
368	7225.5000	Cold Rolled of a width of 600 mm or more	Cold Rolled Alloy Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
369	7225.9200	Galvanized Steel	Hot Dip Zinc Coated Alloy Steel Sheets, Strips and Coils As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
370	7225.9900	Other / Color Coated Alloy Steel	Hot Dip Zinc Color Coated Alloy Steel Sheets, Strips and Coils, As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
371	7225.3000 7225.4000 7226.2000 7226.9100 7226.9900	Plates & Sheets (Hot rolled)	Plates (Hot rolled) Thickness : 10 mm (min.), Width: 1500 mm (max.) Length ; 4000 - 6000 mm Sheets (Hot rolled) Thickness : 3 mm (max.), Width : 950 mm (max.) Length : 3000 mm (max.)	Black surface	All type of stainless steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
372	7226.9200	Cold Rolled of less than 600mm	Cold Rolled Alloy Steel Sheets, Strips and Coils As per JIS G-3141, ASTM A-1008 [Excluding SPCE (SDH) grade and other auto grades]	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
373	7226.9900	Galvanized Steel of less than 600mm	Hot Dip Zinc Coated Alloy Steel Sheets, Strips and Coils, As per JIS G-3302, ASTM A-653	--	--	International Steel Ltd. 399-404, Rehri Road, Landhi Karachi
374	7227.9000	Hot Rolled Bars of alloy steel	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi
375	7228.1000	High-speed steel, Forged	Radial Forging: Square, Round, & Varying section profile, axles of cross section 60 mm to 200 mm and flat 30 - 150 mm & width 60 - 180 mm, Length 4000 - 6000 mm	Black surface	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
376	7228.3010	Case hardening steel, Hot rolled bars	Hot Rolled Bars; Diameter : 18 - 130 mm Length : 4000 - 6000mm	Black surface, See Annex-II	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
377	7228.4000	Alloy steel, Forged bars	Press forging: Shafts : Dia 700 mm (max.) Disc dia : 1500 mm (Max) Length : 8000 mm (max.) Weight : 12 mt. Radial Forging: Square, Round, & Varying section profile, axles of cross section 60 mm to 200 mm and flat 30 - 150 mm & width 60 - 180 mm, Length 4000 - 6000 mm	Black surface/ Machined	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
378	7228.5000	Alloy steel, Cold drawn bars	Cold drawn bars; Diameter : 12 - 80 mm Length : 4000 - 6000mm	Bright surface	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi
379	7228.7000	Alloy Steel Angles	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	As per Standard	As per Standard	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi
380	7228.2010 7228.2090	Silico-manganese steel, Hot rolled bars	Hot Rolled Bars; Diameter : 18 - 130 mm Length : 4000 - 6000mm Flat Bars Size : 6 x 40 mm - 20 x 110 mm Length 4000 - 6000mm	Black surface	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
381	7228.3090 7228.6000	Other alloy steel, Hot rolled bars	Hot Rolled Bars; Diameter : 18 - 130 mm Length : 4000 - 6000mm Flat Bars Size : 6 x 40 mm - 20 x 110 mm Length 4000 - 6000mm	Black surface	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghpir Karachi Amreli Steels Ltd. D/89, Shershah Road SITE, Karachi Agha Steel Industries Plot No. NWIZ/I/P-133(SP-6) D-2 Port Qasim Authority, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
382	7302.4000	Fish-plates, iron or steel	Fish Plates for Railways	Fish Plate Combination, Joggled Fish Plate, Slotted Fish Plates and Fish Plate bolts and nuts etc.	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
383	7303.0000	Cast Iron and Ductile Pipes	B.S.S 2035 for cast iron and I.S.O 2531 for ductile Iron Pipes [Excluding ASTM Standard Pipes]	Cast Iron and Ductile Iron	Grade 14 Mechanite Type GD and NF A 38-012	Ghulam Mohi-ud-Din & Sons, 6 Rehman Gali, Railway Road, Lahore
384	7304.1100	Line Pipe for oil or gas pipelines (Stainless Steel)	Seamless Steel Line Pipes of All Kind used for Oil & Gas Pipelines with or with out 3 layer Polyethylene /polypropylene / Fusion Bond Coating. Specification: API 9 Cr, API 13 Cr. Sizes: 0.405" to 10.750" Wall Thickness: 1.73mm to 15.9mm Length: SRL & DRL (excluding internally coated pipes)	--	--	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
385	7304.1900	Seamless Steel Line Pipes (unthreaded)	Seamless Steel Line Pipes of All Kind used for Oil & Gas Pipelines with or with out 3 layer Polyethylene /polypropylene / Fusion Bond Coating. Specification: API 5L All Grades Sizes: 1/8 Inch to 10 Inch Nominal Dia. (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
386	7304.2900	Seamless Pipes (unthreaded)	Casing & Tubing of a kind used in Drilling for Oil & Gas. Specification: API 5 CT All Grades Sizes: 1/8 inch to 10 inch nominal dia. (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
387	7304.3100	Pipes, Iron or non-alloy steel (unthreaded)	Seamless Steel Pipes / Tubes of other cross-section, of iron or non-alloy steel. Specification : ASTM A 53 / ASTM A 106 , ASTM A 192, ASTM A 199, ASTM A 210, ASTM A 213, ASTM A 519, DIN 2391, DIN 2440, DIN 2441, DIN 2448, DIN 1629, DIN 1630, DIN 17173 / 2448, DIN 17175 / 2448 JIS G 3464, JIS G 3444, BS – 1387. BS 3059, BS, 3059/2, BS 1775, BS 6323, NFA 49 – 112, NFA 49 – 1445, NFA 49-211 UNI 8863; Sizes: 10.3mm to 273mm (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
388	7304.3900	Pipes of circular cross-section, of iron or non-alloy steel	Specification: ASTM A 53 / ASTM A 106 , ASTM A 192, ASTM A 199, ASTM A 210, ASTM A 213, ASTM A 519. DIN 2391, DIN 2440, DIN 2441, DIN 2448, DIN 1629, DIN 1630, DIN 17173 / 2448, DIN 17175 / 2448 JIS G 3464, JIS G 3444 BS – 1387. BS 3059, BS, 3059/2, BS 1775, BS 6323 NFA 49 – 112, NFA 49 – 1445, NFA 49-211 UNI 8863 Sizes : 10.3 mm to 273mm (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
389	7304.4100 7304.4900	Cold Drawn or Cold Rolled (Cold Reduced) Pipes / Tubes	Seamless Steel Pipes/ Tubes other cross- section, of iron alloy steel, cold drawn or cold rolled. Specification: ASTM A 53, ASTM A 106, ASTM A 179, ASTM A 192, ASTM A 210, ASTM A 519, API 5L, DIN 17175, JIS STB 35S Sizes: 10.3mm to 273mm (excluding internally coated pipes)	--	--	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
390	7304.5100	Pipes of Iron or non-alloy steel (unthreaded)	Seamless Steel Pipes / Tubes other cross-section, of iron alloy steel, cold drawn or cold rolled. Specification: ASTM A 333, ASTM A 334, ASTM A 335, ASTM A 519. Sizes: From 10.3mm to 273mm (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
391	7304.5900	Tubes of alloy steel, seamless circular cross-section (unthreaded)	Specification: ASTM A 333, ASTM A 334, ASTM A 335, ASTM A 519. Sizes : From 10.3mm to 273mm (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
392	7304.9000	Pipes of Iron or steel, seamless (unthreaded)	Specification: ASTM A 333, ASTM A 334, ASTM A 335, ASTM A 519. Sizes: From 10.3mm to 273mm (excluding internally coated pipes)	As per required standard/ specification	As per required standard/ specification	Huffaz Seamless Pipe Industries Ltd. 207-210 2nd Floor , Mashriq Centre Block-14, Gulshan-e-Iqbal, Karachi
393	7305.1100	Longitudinally Welded Pipes	ASTM A-134, ASTM A-381, ASTM A-409, ASTM A-589, ASTM A-671, ASTM A-672, ASTM A-139, ASTM A-252, BS-6323, ASTM A-139, A-120, A-653	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
394	7305.1100	Welded Steel Linepipe	M.S. and Galvanized Steel Line Pipes (Electric Resistance Welding) from 1/2" to 18" BSS 1387/1985, API 5L (PSLI), ASTM A53	HR-1, HR-2, HR-3, HR-4, HR-235, HR-274, API 5L-B API 5L X42	--	Jamal Pipe Industries (Pvt) Ltd; 88-Railway Road, Lahore
395	7305.1100	Helical Seam Submerged - Arc Welded Pipes (Spiral Welded Pipes)	219.mm upto 2438. mm in thickness of 4.0mm and upto 25.4mm and API Steel Grade Upto X-80 PSL-2 According to API-DIN-BS-AWWA-ASTM Standard. (Protective Coating both internal as well as external coating of these pipes i.e. 3 layer Poly Ethylene/ Poly Propylene Coating as per DIN 30670, CSA Z 425.20 and CSA Z 245.21]	As per API 5L	According to API Specs	Data Steel Pipe Industries (Pvt.) Ltd. Ibrahim Building, 20-West Wharf Road, Karachi
396	7305.1100	Steel Line Pipe	<u>Spirally welded (Submerged arc Welded):</u> a) Bare: Size : 6" to 126" dia, Grade upto X-80 API-5L ASTM and BS specification b) Coated with 3 layers: Polyethylene, /Polypropylene, Copolymer(Adhesive),Fusion Bonded Epoxy for 6" to 60" Dia Linepipe <u>Electric Welded</u> a) Bare: Size: ½ to 12" , Electric Resistance Welded (ERW), Electric Induction Welded (EIW) (straight seam), upto Grade API X-52, ASTM, BS Specification b) Galvanized Iron., Electric Resistance ERW and Electric Induction IEW, ASTM, and BS Standard	As per Table 5 3 A and 3 B of API Specification 5 L, ASTM and BS Specifications. As per table 3A of API. Specification 5L, ASTM and BS Specifications	As per table 2A and 2B of API specification 5L, ASTM and BS specifications As per table 2A of API specification-5L, ASTM of BS Specification	- Ramna Pipe Lahore - Shalimar Pipe Mills Lahore - Indus Steel Pipes Ltd. 7th Floor, PIC Tower, 32-A Lalazar Drive Karachi - Shashi Steel Pipe Works, Karachi
397	7305.1900	Line Pipe for oil or gas pipelines	Longitudinally Welded Pipes: ASTM A-139, A-671, A-672, A-381, A-120, A-653, A-A-252, A-409, BS-6323	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
398	7305.3100	Steel Line Pipe	Longitudinally Welded Pipes: ASTM A-139, A-671, A-672, A-381, A-120, A-653, A-A-252, A-409, BS-6323	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
399	7305.3100	Steel Line Pipe	Longitudinally Welded Pipes: ½" to 12-3/4" dia ERW/EIW Grade: A25 – X-60, PSL – 1 & 2; API 5L [Excluding Alloy Steel, NACE Compliant]	As Per API Specification 5L(43rd Edition)	As Per API specification 5L (43rd Edition)	BBJ Pipe Industries (Pvt) Ltd. 23rd, 1st Floor, Bilal Centre,Nicholson Road, Lahore
400	7305.3100	Carbon Steel Pipe/ Coating	8" to 90" diameter, wall thickness 4mm to 19.1mm, API 5L grade B to X80; PSL-1 & PSL-2; 3Layer Polyolefin Coating Coating Range 4" to 56" diameter [Excluding Alloy Steel, NACE Compliant]	As per API 5L Grade B to X80 or equivalent PSL-1 & PSL-2	As per API 5L, Grade B X80 OR equivalent PSL-1 & PSL-2	Crescent Steel and Allied Product Ltd. 9th Floor, SIDCO Avenue Centre, 264-RA Lines, Karachi-74400

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
401	7306.1900	Pipes, Line, Iron or steel	<p>(I) Wellhead completion equipment parts components and consumables used for drilling and production of oil and gas from a well onshore or off shore. (excluding following spares) Ring Gaskets, Retainers, Spacers, Seals, Gland Packing, NX Bushing, Redress Kits, Cad plated Nuts & Studs</p> <p>a) Wellhead Assemblies as per API 6A Specs. For the following items:</p> <p>i) Casing head housing ii) Casing head spool iii) Casing hangers iv) Side outlet valves v) Wear bushings vi) Flanges (API 6A) vii) Secondary seals viii) Testing tools ix) Accessories like riser, spacers spool, mud lines and suspension systems</p> <p>b) Tubing Head Spool: - Secondary seal assembly, - Tubing hangers - Side outlet valves - Flanges (API 6A) - Tubing head adapters, E13 - X-mas tree assemblies - Chokes and accessories like tree caps - Back pressure valves</p> <p>c) Double Studded Adapter: Flanges and secondary seals and other from 1-13/16" to 26-3/4" ID flanges i.e.</p>	<p>Upto 10,000 psi</p> <p>As per API 6A specs.</p> <p>upto 30" 7" - 30" 5' - 30" 1-13/16" to 7-1/16" ID 5" - 30" 1-13/16" to 7-1/16" ID For pressure from 2000 to 10000 psi -do-</p> <p>As Per API 6A Specs.</p> <p>As Per API 6A Specs. from 1-13/16" to 26-3/4" ID</p> <p>As per API 6A only</p>	NACE Compliant	ADOS Pakistan Limited H.No. 88, Main Margalla Road, F-8/2, Khayaban-e-Iqbal Islamabad
402	7306.1900	C.I. Tubes with special Rubber Seals	For Carbonating Tower and for Ammonia Gas Cooler	--	--	Heavy Mechanical Complex Taxila SEFEC Engineering (Pvt) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
403	7306.2900	Casing and Tubing (Unthreaded)	<p>Tubing 1" to 4-1/2"</p> <p>Casing 4-1/2" to 13-3/8" GPI H-40; GP3 P-110; GP4 Q-125; PLS-I (API 5CT)</p> <p>[Excluding internal coated & threaded Alloy Steel Casing and Tubing for High Pressures Rating, Seamless Casing & Tubing, Carbon Steel, Chrome Material & Premium Threads Connections – Duly API Certified].</p>	--	--	BBJ Pipe Industries (Pvt) Ltd. 23rd, 1st Floor, Bilal Centre, Nicholson Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
404	7306.9000	Pipes of Iron or steel	Galvanized pipes. Diameters: 15mm (½"), 20mm (¾"), 25mm (1"), 32mm (1¼"), 40mm (1½"), 50mm (2"), 65mm (2½"), 80mm (3"), 100mm (4"), 125mm (5") and 150mm (6") Wall Thickness: From 1.80mm to 7.10mm. Standards: BS 1387 (1985), ASTM A53 (2002), DIN 2440 & 2441 and other upon request. Precision Steel Tubing Diameters: Round:12.70, 15.90, 17.50, 19.05, 22.20, 23.80, 25.40, 28.60, 31.80, 38.10, 42.20, 48.10 & 60.30 Wall Thickness: .60mm to 2.0mm Standards BS 6323 Part1 & 5 (1982) Shape: Square, Rectangle & Elliptical in equivalent size to above round dia. API Line Pipe for Gas Distribution, under API License Diameters: 26.7mm (¾"), 33.4mm (1"), 60.3mm (2"), 114.3mm (4") and 168.3mm (6") Wall Thickness: From 2.87mm to 7.10mm Standards: API 5L (Latest Edition) ASTM A53 (2002) and other upon request L,T & Z Profiles for Door & Windows Frames Diameter / Shape: L40, T48, Z48, L55, T60, Z60 Wall Thickness: From 0.70mm to 0.90mm Standard: IIL Standard (excluding internally coated pipes)	As per Standard	Low carbon steel	International Industries Ltd. 101 Beaumont Plaza, 10 Beaumont Road, Karachi
405	7307.2100	Stainless Steel Flanges	Different types of flanges as per customer requirement	All Steel and Stainless Steel Flanges and Flanges of Standard ANSI B16.5 etc.	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
406	7308.1000	Fabricated Steel Profiles	Plate fabricated I & H Sections Maximum height, width and Flange/Web thickness of Sections= 2500 mm, 800 mm, 30/25 mm respectively AISI, BS-5400	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
407	7308.1000	Steel Buildings and Structure	Steel Structure for platforms, Gantries, Steel piles casing for following industries: 1. Oil & Gas fields 2. Oil Refineries 3. Fertilizer Industries 4. Cement Plants 5. Sugar Mills 6. Flood light Masts 7. Lattice type towers 8. Jetties & Terminals 9. Industrial Sheds 10. Multistoried Residential and Commercial Buildings, constructed with Steel Structure. In accordance to AISC,AISI, BS 5400, AWS - D.1.1.Masts, towers, plate girders, columns, supports, staging, walkways, factory sheds, grid and yard structures, platforms for all industrial plants (cement, sugar fertilizer, chemical, petro-chemical, oil refineries & processing, Sewage-water treatment) Industrial buildings, 20x70m to 30 to 100m.	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 Brothers Engineering Ltd. 135-Upper Mall, Lahore. Heavy Mechanical Complex (Pvt) Ltd., Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
408	7308.1000	Industrial steel equipment	Ducts chutes, draughts, chimneys, cyclones, etc for all industrial plants (cement, sugar fertilizer, chemical, petro-chemical, oil refineries & processing, Sewage- water treatment)	--	--	Brothers Engineering Ltd. 135-Upper Mall, Lahore.
409	7308.1000	Steel Profiles	Plate fabricated (required by any industry)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
410	7308.1000	Duct, Chutes, Draughts, Chimneys, Cyclones for Industrial Plants	Carbon Steel (CS), Stainless Steel (SS) and Alloy Steel - All grades	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
411	7308.2000	Iron or Steel Towers; (i) Communication Towers (ii) Transmission Towers	(i) L-Type, Monopole, Tubular, Antenna Pole (Sizes 3mtr. to 85 mtr. height) (ii) Sizes 3mtr. to 85 mtr. Height	--	--	Descon Engineering Limited DESCON Manufacturing Business Area, 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
412	7308.2000	Steel Wind Tower/ Steel Mast	Windmill Tower	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
413	7308.2000	Masts, lattice and jetties of Iron or steel, for ships	1) Breasting Dolphins for Jetty upto 35000 mm long and 2300 mm diameter. 2) Mooring Dolphins for Jetty upto 17500 mm long and 1020 mm diameter. 3) Piles for Jetty upto 33500 mm long and 609 mm diameter. In all types and sizes (excluding internally coated pipes)	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
414	7308.2000	Wind Mill Towers/ Steel Towers	Load carrying capacity upto 200 Tons (as per requirement)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area, 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
415	7308.2000	Steel Structure	upto 45 ft.	For Transmission Lines	--	Creative Engineering (Pvt) Ltd. 160/ S, Q.I.E. Kot Lakhpat Lahore
416	7308.9010	Iron or steel Shelvings	Racking & shelving system - heavy duty pallet racking system, medium duty racking system, library shelving system, compressed filling system etc. For Warehouse, Stores, Supermarket and Factories etc.	--	--	Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi
417	7308.9010	Gates of Iron or steel	Gates for Barrages. In accordance to AISC, AWS D.1.1 Sizes (up to 3 MTR heights, 4 MTR wide, 12 MTR lengths (Barrage & Tunnel Gate for Hydle & Irrigation purpose).	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
418	7308.9010	Iron or Steel Racks	Racks sizes up to width 1.2 MTR, Height 4, and 12 MTR (bolted structure and can be assembled in any dimension Fencing sizes (up to 4mtr height	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
419	7308.9090	Gates of Iron or Steel/ Penstocks	Gates for barrages According to AISC AWS D 1.1 Sizes upto 3 mtr height, 4mtr wide, 12 mtr length (barrage & tunnel gate for Hydel and irrigation purpose	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
420	7308.9090	Other Structure and parts of iron or steel	Gates sizes (up to 3 MTR heights, 4 MTR wide, 12 MTR lengths (Barrage & Tunnel Gate for Hydle & Irrigation purpose. Racks sizes up to width 1.2 MTR, Height 4, and 12 MTR (bolted structure and can be assembled in any dimension Steel Structure (for Equipment, Plant Warehouse, Building and other purposes) - Light Structure (stairways , ladder railing and Plate Form) Sizes up to 0 ~ 200 mm - Medium Structure (flooring) Sizes up to 200 ~350 - Heavy Structure (column and framing beam) Sizes depth up to 350~1500 mm	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
421	7308.1000 7308.3000 7308.4000 7308.9090	System and Steel Frameworks	--	--	--	Izhar Steel Izhar House, 35-Tipu Block New Garden Town, Lahore
422	7308.2000 7308.3000 7308.4000	Towers of iron or steel	Self supporting and lattice type masts & Towers upto 60M. (Excluding Masts and Structures for Oil/ Gas Rigs)	Flood Light Towers upto 65000 mm height and Diameter upto 1800 mm diameter.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 Brothers Engineering Ltd. 135-Upper Mall, Lahore. Heavy Mechanical Complex (Pvt) Ltd., Taxila
423	7308.2000 7308.9010	Power Transmission Towers of Iron or Steel	11 Kv, 66 Kv, 132 Kv, 220 Kv, 500 Kv and Tele- communication Towers, (Green field, Roof top, Triangular, Monopole in all types and sizes)	Angles, Plates and Hardware of M.S., H.T. of grade DIN17100, S355 JR, ASTM A572/572M grade 50, ASTM A394 Type 0, ISO 898 grade 5.8, 6.8 and 8.8, ASTM A36/A36M	--	Pakistan Engineering Company Limited 6/7, Ganga Ram Trust Building The Mall, Lahore
424	7308.9010 7308.9090	Steel Building and Structure	Plate Fabricated Profiles/ Pipe Racks, Modules	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
425	7309.0000	Tanks of iron or steel	Upto 35,000 cubic metre i.e. Diameter= 60 meters, Height= 17 Meters API-650, API-620, BS-2594, BS-799, BS-1564, BS- 7777, BS-2564, BS-7122, API-12B, API-12D, API- 12F, AWWA, UL No. 142, UL 58	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
426	7309.0000	Reservoirs Of Iron Or Steel	Large diameter tanks for API 620 and API 650	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
427	7309.0000	Steel Containers/ Tanks	Reservoirs, Tanks, Road Tankers, Deaerator Tanks, Feed Water Tanks, Clarified Tanks, Underground Storage Tanks, Skid Mounted Fuel Tank	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
428	7309.0000	Steel Vessels & Storage Tanks (Iron or Steel)	Tanks: API 620 and API 650/ (Fixed & Floated Roof) Vessels: Upto 150 MM Wall Thickness (Vertical and Horizontal, All types)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
429	7309.0000	Reservoirs of Iron or steel	Large diameter tanks such as storage tanks for petrochemical industry, alcohol storage tanks, molasses storage tanks, LPG Bullets and bio gas reactors. In accordance to API-650, API-620, BS-2594, BS-799, BS-7777, BS-1564, BS-2564, BS-7122	1) Circular Capacity upto 500,000 Liters. Diameter upto 34000 mm Height upto 15000 mm. 2) Square Tanks for 26 MVA PMTs upto 4500 mm length, 1600 mm width and 2600 mm height.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
430	7309.0000	Steel Tanks for water and oil storage	Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment. Under ground and above the ground oil/ chemical and water storage tanks; Capacity = 300 ltr to 500,000 ltr As per code API 650 and others Material = HR - 255, HR-275, HR-283, HR-285, SA-36, HR 275&25 Steel Plates., Carbon Steel, mild Steel, Stainless Steel and Alloy. Ranging from 10m to 40m in diameter. Height ranging upto 15 Meters.	--	--	Petrosin Ravi Industries Ltd. Shahra-i-Pakistan Kala Shah Kakoo G.T Road Lahore Cylinders Engg. Industries (Pvt) Ltd 9-C, 13th Commercial Street, Phase-II, Defence H. Authority, Karachi
431	7309.0000	Steel vessels and storage tanks	Pressure Vessels upto 80mm wall thickness. Storage Tanks upto 40000 m ³	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
432	7309.0000	Tanks, iron or steel	Aluminum Tanks for Transportation of Fuel (capacity over 300L)	Tow bar fuel tanker, truck mounted fuel tanker, trailer mounted fuel tank, mobile dispenser	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
433	7309.0000	Steel Containers / Tanks	Reservoirs, tanks, vats and similar containers: e.g. M.E.G. road Tanker barrels, Oil Storage Tanks, Low Pressure Feed Water Heater/Deaerator and Feed Water Tank. Clarifier Tanks, etc. of capacity exceeding 300 liters For any service and any type of steel; (other than compressed or liquefied gas at low temperature)	--	--	Design & Dev. Fabr. Lahore Haseeb Waqas Engineering Ltd. 103, B/1, M.M. Alam Road Gulberg.III Lahore
434	7310.1000	Steel Drums	Oil storage Drum, under storage tank of steel, skid mounted fuel tank	--	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
435	7310.1000	Cans and Containers	For any service & of any type of steel, whether or not lined or heat insulated but not fitted with mechanical or thermal equipment (other than compressed or liquefied gas), Chlorine cylinders 01 ton capacity	--	--	Hashmi Can Co. Ltd. B-24, Manghopir Road, SITE PO Box. 3608, Karachi-75700 Brother Engg. Ltd. 135-Upper Mall, Lahore.

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
436	7310.1000 7310.2900 8419.8990	Tanks, Drums and Other Containers	Tanks, Drums, Boxes and Similar Containers (Material & Size as per Requirement)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
437	7311.0010 7311.0020 7311.0040 7311.0090	Pressure Vessels	Type: Horizontal & Vertical Size: Dish Head (2:1 tori-spherical Ø6m x 30mm thick in CS and 20mm thick in S. Steel. Plate benging 120mm thick in CS, 4,000mm long in CS. Desing Code/ Standards: ASME Sec. VIII-1-2, 3 .	--	--	Heavy Mechanical Complex-3 Hattar Road, Taxila
438	7311.0010 7311.0020 7311.0030 7311.0040 7311.0090	Storage Tanks	Type: Horizontal & Vertical Size: Dish Head (2:1 tori-spherical Ø6m x 30mm thick in CS and 20mm thick in S. Steel. Plate benging 120mm thick in CS, 4,000mm long in CS. Desing Code/ Standards: API-620.	--	--	Heavy Mechanical Complex-3 Hattar Road, Taxila
439	7311.0010 7311.0020 7311.0030 7311.0090	Iron or steel pressure vessels and drums	Pressure Vessels, Knock out drums, Steam drums, Steam saturation drums, Boiler feed water tanks, De-aerator tanks, Truck mounted, Above/Under ground LPG Vessels, LNG Spherical storage Tanks. In Accordance to ASME sec VIII Div 1 & 2. BS 5500 Cat 1&2 TEMA,	1) LPG Vessel upto 5000mm dia X 52380 mm length and 31 mm thick. 1100 m ³ storage capacity. Largest LPG vessels fabricated in Pakistan.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
440	7311.0010/ 7311.0020/ 7311.0030/ 7311.0090	Iron or Steel Pressure Vessel, Drums, Bullets and Column	Pressure Vessel, Knock Out Drums, Steam Drums, Steam Saturation Drums ,Boiler Feed Water Tanks, Deaerator Tanks, Truck Mounted /Under Ground/above Ground LPG Vessel/Bullet /Storage Tank, LPG Transportation Bowzers, LNG Spherical Storage Tank, Column / Filter, Slug/Sludge Catcher (Finger Type/Vessel Type)	ASME SEC VIII DIV 1 & 2	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
441	7311.0020 7311.0090	Containers	For compressed or liquefied gas, of iron or steel Shop built sizes up to 5 x 5 MTR (Width, Height) Site built sizes up to Dia 20 MTR and Length 20 MTR	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
442	7311.0020 7311.0090	LPG cylinders of iron or steel	a. LPG Cylinders with capacity = (6.0kg, 11.8 Kg, 15 Kg and 45.4 Kg) b. LPG Storage Bullets (from 01 MT Capacity to 100 MT) c. LPG Transportation bowzers (10 MT to 25 MT) with under carriage. d. Pressure vessel (15 PSI to 4000 PSI) as per ASME section VIII Div 1 and material thicknes 8mm to 50.8mm	Working Pressure : 7 Bar Test Pressure : 30 Bar Burst Test Pr :70 Bar DOT, ASME & BS Standard	Material: HR,SG-255 Steel Sheets. DOT, ASME & BS Standard	Petrosin Ravi Industries Ltd. Shahra-i-Pakistan Kala Shah Kakoo G.T Road Lahore Cylinders Engg. Industries (Pvt) Ltd 9-C, 13th Commercial Street, Phase-II, Defence H. Authority, Karachi Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi FAS Tube Mills & Engineering Industries 67 - C Steel Street (Meco)Market, Landa Bazar, Lahore -54000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
443	7311.0020 7311.0090	Pressure Vessels for LPG Storage.	As per ASME Code Sec: VIII Div-1. Ranging from 30 Tons capacity and onwards with Wall Thickness from 20mm to 70mm.	--	Material: HR,SG-255 Steel Sheets.	Cylinders Engg. Industries (Pvt) Ltd 9-C, 13th Commercial Street, Phase-II, Defence H. Authority, Karachi
444	7311.0020 7311.0090	LPG bulk storage tanks	LPG bulk storage tanks of capacity 500 kgs and above cylindrical pressure vessels of thickness upto 250mm	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
445	7312.1010	Stranded wire of Iron or steel, not electrically insulated	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	--	--	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi
446	7312.1010	P.C Strand	Size 3/8", 7/16" & 1/2"	--	C-Si-Mn-P-S-Cr-Ni-Cu Al & Mo	Cable & Conductor Ltd. 1st Floor, 41 Civic Centre Barkat Market New Garden Town Lahore
447	7312.1010	Galvanized Steel Wire Stranded	WAPDA P 12:80	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
448	7312.1010	Galvanized steel wire	WAPDA P 12:80	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
449	7312.1010	P.C. Strand	JIS G 3506 / SWRH-82 B (ASTM A-416/B.s. 5896 Grade 250/270-K, Normal Relaxation, Not Electrically Insulated)	7 Wire Strands 1/2", 3/8", 7/16"	C 0.81, Si 0.24, Mn 0.84, P 0.015, S 0.012	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur
450	7312.1010	Prestressed Concrete	JIS G 3506 / 1980 SWRH-82 B (ASTM A-421 Grade 250/270-K, Not Electrically Insulated)	Wire (variable dia)	C 0.80/.84, Si 0.22, Mn .60/.80, P .02X, S .02X, Cr .240/.260, N .010, Cu .007, Ni .014, Mo .001, V .025	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur
451	7312.1010	High Carbon Steel wire strand	JIS G 3536 SWRH-82B-1 (Not Electrically Insulated)	Wire (variable dia)	C 82/83, Si 23/27, Mn 76, P 11/17, S 4/6, Cr 17/19	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur
452	7312.1010	High Tensile Steel	JIS G 3506 /B.S. 5896 (Grade 250/270-K, Normal Relaxation, Not Electrically Insulated)	Wire (variable dia)	C .81%-.83%, Mn .75-77%, P .010-.014%, S .002%-.005%, Si .25-.26%,Sr .17%-.18%	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur
453	7312.1010	Hard Drawn/ Spring wire	JIS G 3536(Not Electrically Insulated)	Wire (variable dia)	C .83, Mn 0.67, P 0.013, S 0.010, Si 0.19, Cr 0.250, N .006, Cu .007, Ni .014, Mo 0.25, Sn .002	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur
454	7312.1020	Stranded ropes of Iron or steel, not electrically insulated	ASTM, JIS all International spec	Low Carbon to High Carbon Steel Wire & Ropes	--	Chaudhri Wire Rope Industries (Pvt) Ltd. 25 Km G.T Road Muridke Lahore Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
455	7312.1020	Steel Wire Rope	6X7FC,SC & IWRC-6X12, 6X19, 6X24, 6X36, 6X37 FC, SC & IWRD	--	C-Si-Mn-P-S-Cr-Ni-Cu Al & Mo	Cable & Conductor Ltd. 1st Floor, 41 Civic Centre Barkat Market New Garden Town Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
456	7312.1020	Wire Rope (Not electrically insulated)	SWRH 42B, 47B, 62B & 72B JIS G 3506	8 mm to 20 mm Ø	C/ 62-72, Si 195, Mn 67, P .6, S .13, Si 195-201	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur
457	7312.1010 7312.1020	Galvanized Steel Strands Steel Wire / Rope	BS 302, JIS G3525, BS 2763	As per Standard	As per Standard	Pakistan Wire Industries E-51, Textile Avenue, SITE, Karachi
458	7312.1090	Core Wire for ACSR	JIS G 3506 62 B, 72 B (Not Electrically Insulated)	Wire (variable dia)	C 73, m 67, P 0.06, S 0.013, Si .195	Wire Manufacturing Industry Ltd. 45-KM Lahore-Multan Road, Nathey Khalsa, Bhai Pheru District Kasur Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
459	7313.0000	Barbed wire of Iron or steel	As per BSS-4461-1969, ASTM-A36-75, ASTM-615-76a (1977)	--	--	Metropolitan Steel Corporation Limited 706-Progressive Plaza, 101-Bemount Road, Karachi ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
460	7314.3100 7314.4100 7314.3900 7314.4900	Fencing of Iron or steel	Fencing (up to 4 mtr height)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 ASG Metals Ltd. EIZ/LL/SP-08, Eastern Industrial Zone, Port Qasim Authority, Karachi
461	7317.0090	Staples Pins of iron or steel	All Sizes	--	--	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
462	7318.1200	Screws (Wood, Threaded, Iron & Steel)	Gauges : 3 SG to 14 SG Lengths : 1/2" to 5" British & DIN Standards - Twinstart & Full Dia.	Countersunk & Round Head, Slotted & Phillips, Partial & Fully Threaded Screws.	Mild Steel with 0.10% Carbon & Stainless Steel.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area, Karachi
463	7318.1400	Screws (Self-Tapping, Threaded)	Gauges : 4 SG to 14 SG Lengths : 1/2" to 5" (or Metric equivalents) BS-4174 or DIN Standards	Hardened Screws, all types of heads, Nickel, Zinc or Rainbow Plated for use in metal plates & sheets made from Medium Carbon Steel .Torque Strength upto 136 lbs/sg. Inch.	Medium Carbon Steel 0.15-0.20,	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area, Karachi
464	7318.1400	Machine Screws	Gauges : 1/8 to 5/16" & M3 to M8 Lengths : upto 5" or 125mm BS-4183 & DIN Standards 963, 964 & 965.	All types of Heads, Zinc & Rainbow Plated.	Mild Steel & Stainless Steel.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area, Karachi
465	7318.1400	Drywall (Bugle Head) Screws.	Gauges : 6 to 12 SG Length : Upto 3" DIN Standard in Fine & Coarse Thread.	Hardened Screws, all types of heads, Nickel, Zinc or Rainbow Plated for use in metal plates & sheets made from Medium Carbon Steel .Torque Strength upto 136 lbs/sg. Inch. (Black Phosphated)	Medium Carbon Steel 0.15-0.20, S&P 0.045% max, & Mn 0.20 – 0.60% & Stainless Steel.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
466	7318.1590	Bolts of Iron or steel	Dia M6 ~ M24 SAE 4.8, 5.8, 8.8, 10.9, 12.9	SAE 1,2,5,8,A574 Tensile:60,74,120,150,180 KSI Yield Strength: 36,57,92,81,130,160 KSI	S&P 0.045% max, &	Mirza Younas & Co. Zahoor Coloney Momin Pura Road, Near Bhatta Daroghawala,Lahore
467	7318.1590	Bolts of Iron or steel	Dia M6 ~ M24 M.S & High Tensile	SAE 5, SAE 8 , SAE 2 Tensile Stress 120 KSI,150 KSI,	Mn 0.20 – 0.60% & Stainless Steel.	Mirza Younas & Co. Zahoor Coloney Momin Pura Road, Near Bhatta Daroghawala,Lahore
468	7318.1590	Bolts of Iron or steel	Dia M6 ~ M24 M.S & High Tensile	SAE 2, 5, 8 Proof Stress 105~ 1050 KSI	C= 0.28~ 0.55 Mn= 0.30max Ph= 0,05 max S=0.15 max Cr= 0.25 max	Mirza Younas & Co. Zahoor Coloney Momin Pura Road, Near Bhatta Daroghawala,Lahore
469	7318.1590	Bolts of Iron or steel	Bolts, Nuts, Rivets, Studs, Washers, Screws of Steel, Mild Steel, Stainless Steel and Galvanized	Grade AISI 1008, 1010, 1012, 1025, 1030, and equivalent grade 8.8, 10.8, 12.8 and equivalent; Galvanized High Tensile Strength	--	Inayat Brothers P-27 Canal Road, Peoples Colony # 1, Faisalabad
470	7318.1590	Bolts of Iron or steel	Agricultural and all types of Bolts, Nuts and Washers	AISI 1008,1010,1012,1015,1025,1030, and equivalent High Tensile Strength	--	I. B. Industries P-27 Canal Road, Peoples Colony # 1, Faisalabad
471	7318.1590	Bolts of Iron or steel	Gauges : M3 to M8 Lengths : upto 110mm Hex Head Bolts, Flat & Indented. British & DIN Standards.	Fully or partially threaded, Zinc or Rainbow Plated.	Mild Steel, Medium Carbon Steel & Stainless Steel.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area, Karachi
472	7318.1900	Threaded Nuts of Iron or steel	Dia M6 ~ M24 Medium,High Carbon & Alloy Steel	SAE 4.8,8.8,10.9 & 12.9	C% 15~55 P% 0.03~0.05 S% 0.03~0.05 Ni% 0.15~0.22 Cr% 0.18~0.25	Mirza Younas & Co. Zahoor Coloney Momin Pura Road, Near Bhatta Daroghawala,Lahore
473	7321.9000 7326.9090	Shelves of Iron or steel	Made of CRC, HRC, Galvanized Steel Sheet	--	--	Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi
474	7325.1000	Articles of Cast Iron	Cast iron castings upto 28 tons weight (sigle piece) steel casting (low alloy) upto 32 tons weight (single piece)	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
475	7325.9100	Hi-chrome grinding media balls	Hi-chrome grinding media balls of dia 22-100 mm	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
476	7326.1100	Forged grinding media balls	Forged grinding media balls of diameter 30-120mm	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
477	7326.1990	Steel free forged items	Steel free forged items upto 120kg per piece weight	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
478	7326.1990	Articles, Forged or stamped, iron or alloy steels	Die/ Free forged, Die forging up to 5Kg. Free Forging up to 1000Kgs	Machined	All type of alloy steel grades. Chemical composition as per international quality standards or as specified by customers. See Annex-I	Peoples Steel Mills Ltd. Javedan Nagar, Manghipir Karachi
479	7403.1100	Cathodes	Copper Cathodes cut to pieces	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
480	7403.1200 8544.1900 8544.4920 8544.4990 8544.7000	General House Wiring (PVC)	3/.029", 7/.029", 3/.036", 7/.036", 7/.044", 7/.052", 7/.064" BS-2004, BS-6004	T/S, Elong, DC Resistance IR, HVT	Purity: 99.99%	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
481	7407.1020	Copper Rod	ASTM B-49 8.0mm ASTM B-49 Electrical Conductor	Breaking Load Elongation Resistance	Purity: 99.99%	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700
482	7407.1020	Copper Rod	Dia 8.00 & 10.50mm ASTM B-49	--	99.9% (min)	Bawany Metals Ltd. 1001-Unitowers, I.I. Chundrigar Road, Karachi
483	7408.1900 7408.2900	Copper Wire	ASTM B-2 & B-3	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
484	7412.1000 7412.2000	Sockets for Natural Gas and LPG	Type: Bayonet, Angle Bayonet, Compression 10mm, Micro, Leakage test at 1 bar (1KV). Body: Brass (Forged), Size: 1/2:, 3/8",	--	--	Tesla Industries Pvt. Ltd. Plot No. 81-F, St. 6, I-10/3 Islamabad
485	7413.0000	Stranded wire/ cables of copper not electrically insulated.	Range of Sizes: 1.5MM ² to 1000MM ² Voltage Grade: upto 220 KV BSS-6360:7884	• HDBC • PACC	High Conductivity Copper	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
486	7413.0000	Stranded Copper Wire	Size from 1.5 mm to 1000 mm BS 6360	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
487	7413.0000	Flexible Cable	0.5mm ² - 240mm ² BS-6004, BS-6500	T/S, Elong, DC Resistance IR, HVT (PVC)	Purity: 99.99%	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
488	7413.0000	Instrument Cable	0.5mm ² - 4mm ² BS-5308, PI & PII (Shielded) (Flexible & Stranded.)	T/S, Elong, DC Resistance IR, HVT	Purity: 99.99%	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
489	7413.0000	PVC Power Cable	0.5mm ² - 400mm ² BS-6346, IEC-502 (Armoured & Unarmoured)	T/S, Elong, DC Resistance IR, HVT	Purity: 99.99%	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
490	7413.0000	XLPE Power Cable	1.5mm ² - 400mm ² BS-5467, IEC-502 (Armoured & Unarmoured)	T/S, Elong, DC Resistance IR, HVT	Purity: 99.99%	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
491	7415.1000	Nails and tacks, drawing pins, staples and similar articles	All Sizes	--	--	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
492	7415.2100	Washers (Brass) including spring washers.	<u>Sizes</u> a) Outer Dia upto 80mm b) Thickness upto 20mm <u>Types</u> As per customer requirements. Thrust Washers various types.	Sintered Washers made from Bronze Powder.	90% Copper & 10% Tin or 100% Bronze.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area Karachi
493	7415.3300	Brass Screws for wood	Guages 3 - 16 & upto 4" In length - British & DIN Standards	Countersunk & Round Head, Slotted & Phillips.	67% Copper, 33% Zinc	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area Karachi
494	7601.2000	Aluminium Alloy Ingots	As per following standards; HD2, HD2G, HD4, HD1.1, LM6, LM13, LM24, LM28, ADC12, AC3A, AC4B, AC4C, ADC6, B12G19X, AS7GO6, ALSi12Cu	As per International Standards " JIS, Japan, ASTM, USA and BS, British"	As per International Standards " JIS, Japan, ASTM, USA and BS, British"	Sun Metal Industries (Pvt. Ltd. Suite # 108, Anum Trader Center, State Avenue, S.I.T.E. Karachi.
495	7601.2000	Aluminum Alloy Ingot	About 7 ~8 Kg Ingot Size 22"L x 4"W ADC-12 as per JIS, LM-06 as per B.S. LM-24 as per B.S., AC-3A as per JIS, ADC-06 as per JIS, HD-02 For Honda, HD-2G For Honda	--	Si =9~12 % Fe =0.6~1.2 % Cu =2 ~3.5 % Mn =0.10~0.80 % Mg =0.10~0.50 % Ni =0.10 % Zn=0.10~1.00 % Pb =0.10 % Sn =0.10 %	New Era Industries F61/G S.I.T.E, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
496	7604.1010	Aluminium Rod	ASTM B-233	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
497	7604.2100	Hollow Profiles of Aluminum Alloy	Door / Window Sections BSS 1474, ASTM-B-221, BSS-3987, AAMA CLASS 1, BSS-1615	• Anodized • Powder Coated	Aluminium Alloy	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
498	7604.2990	Profiles of Aluminum Alloy	Door / Window Sections BSS 1474, ASTM-B-221, BSS-3987, AAMA CLASS 1, BSS-1615	• Anodized • Powder Coated	Aluminium Alloy	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
499	7605.1900	Aluminium Wire	ASTM B-230	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
500	7607.1100	Aluminium Cable foil for telephone industries	Aluminum Cable Foil for Telephone industry 0.200mm + '--- 0013mm both side of foil with 50u for PE/Copolymer Coating + '--- 0.004nmm or 0.050mm making on overall substance 0.300mm + '--- 0.005mm (Not over 0.2mm thickness)	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi Pakistan Metal Industries D-76, Main Avenue, S.I.T.E. Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
501	7607.1100	Aluminium Finstock in continuous length for Air Conditioning Industry	Unprinted Aluminium Foil thickness 7-200u, One side for printing, other side heat seal coated, not over 0.2mm thick, not backed	--	--	Pakistan Metal Industries D-76, Main Avenue, S.I.T.E. Karachi
502	7607.1990 7616.9990	Aluminium disposable products for air lines & fast food industries (Kitchen Foil, Utensils)	(Aluminium Trays, Casseroles & Kitchen Foil)	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi Pakistan Metal Industries D-76, Main Avenue, S.I.T.E. Karachi
503	7607.1100 7607.1990	Aluminium Finstock for all types of air conditioners, deep freezers & Fridges	Aluminium foil not exceeding 0.2mm (Thickness from 0.12mm to 0.20mm both side or one side with CPV coating, hydrophilic corrosion resistant (Lacquered, Blue, Gold & Silver)	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi Pakistan Metal Industries D-76, Main Avenue, S.I.T.E. Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
504	7607.1990 7607.2000	Aluminium foil for pharma industries	Aluminium Foil for Blister & Strip Pakcing for Pharma Industries. Aluminium Foil not exceeding 0.2mm for manufacturing of above products. A. Foil 7-20u sanwich+one side polyester film & other side polyethylene. B. Foil 7-10u other side polyester film with polyester film with polyethylene coatings. C.7-10u foil with 40-50gsm parchment paper/poster paper + LDPE printed/un-printed alu alu cold forming foil for pharma industries	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi
505	7607.2000	Aluminium foil paper backed for cigarette industries	Aluminum Foil Paper Backed for Cigarette and tea Inds. Thickness not exceeding 0.2mm for manufacture of aluminum foil 6.0u - 7.0u for laminated with paper (tissue paper, poster paper, board 20 - 400 gsm both Silver & Gold lacquered foil. (Not over 0.2mm thickness)	N/15am, 45-60gsm elongation 2 - 2.5%	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi Pakistan Metal Industries D-76, Main Avenue, S.I.T.E. Karachi
506	7610.9000 7604.1010	Aluminium Rod	9.50 mm ASTM B-233	T/S, Elong, Torsion	Conductivity: 61.4%: Composition: Silicon: 0.1, Iron: 0.4, Copper: 0.05, Manganese: 0.01 Chromium: 0.01, Zinc: 0.05, Boron: 0.05 Gallium: 0.03, Vanadium + Titanium: 0.02 Other Elements: 0.03, Other Elements: 0.01 Aluminum: 99.5	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
507	7611.0000	Aluminium Tanks	Aluminum Tank for Transportation of Fuel (capacity over 300L)	Truck mounted Al Tank, trailer type and tow bar type Al Tank Rectangular and circular and semi clliptical storage tank. Al refuller and Bowser and mobile dispenser.	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
508	7612.1000	Collapsible tubular Containers of Aluminum	Dia=12.5 to 45-mm	Aluminum Purity 99.75 %	--	Alucan (Pvt) Ltd. E/12, S.I.T.E. Karachi-75730
509	7614.1000 7614.9000	Aluminium Stranded Conductor	Steel Re-inforced (All Sizes) ASTM B-232 WAPDA P 50:88	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
510	7614.1000 7614.9000	Aluminum Cables	Cables, Aluminum, with steel core, not electrically	As ASTM	CU 99%	Multicore Cables 136 Abid Chambers Temnpal Road Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
511	7614.1000 7614.9000	Aluminium Conductor	Steel Reinforce (ACSR). Rabbit-Dog-Gopher-Lynx-Osprey WAPDA P-50-88 Specs.	T/S, Elong, Weight H-12 Strands Aluminium	Zinc coating uniformity, Al purity	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Cable & Conductor Ltd. 1st Floor, 41 Civic Centre Barkat Market New Garden Town, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
512	7614.1000 7614.9000	Stranded wire, cables, Aluminium not electrically insulated.	Range of Sizes: 1.5MM ² to 1000MM ² Voltage Grade: upto 220 KV BSS-6360, BSS-215 (Excluding ultra violet treated cables)	ACSR	Aluminium Electrical Grade	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
513	7614.9000	Stranded wire and cables of Aluminium	Range of Sizes: 1.5MM ² to 1000MM ² Voltage Grade: upto 220 KV BSS-6360, BSS-215	AAC ACSR	Aluminium Electrical Grade	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
514	7614.9000	Aluminium Stranded Conductor	(All Sizes) ASTM B-231, as per WAPDA specs. P 63:79	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
515	7614.9000	Aluminum Conductor	Ant-Wasp (AAC) WAPDA P-63-79 Specs.	T/S, Elong, Weight	--	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
516	7614.9000	Aerial Bundle Cable	35mm ² - 120mm ² IEC-60502 NEMA (XLPE & PVC) (ABC)	T/S, Elong, Weight XLPE Aging Test	--	H.M. Esmail & Co. (H.M. Cables) SB-5, Madina City Mall 6th Floor , Abdullah Haroon Road, Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
517	7614.9000	Stranded wire, cables, Aluminium not electrically insulated.	Range of Sizes: 1.5MM ² to 1000MM ² Voltage Grade: upto 220 KV BSS-6360, BSS-215 (Excluding ultra violet treated cables)	AAC	• Aluminium Electrical Grade	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
518	7614.1000 7614.9000	Conductors (ACSR)	All Types and Sizes	--	--	Universal Cables Industries Ltd . 61-C, Jami Commercial Street # 7, Phase 7, D.H.A., Karachi.
519	7616.9920	Aluminium slugs	Diameter (outside): Range between 10mm upto 120mm Thickness: Range 3mm to 15mm Centre Hole: As per requirement	Soft, annealed and tumbled	Aluminium (Al) minimum 99.7% Iron (Fe) maximum 0.20% Silicon (Si) maximum 0.10%	Alucan (Pvt) Ltd. E/12, S.I.T.E. Karachi-75730
520	7616.9990	Articles of Aluminum Foil	Aluminum Disposable products for Airlines & Fast Food Industries (Kitchen Foil) aluminum Metal 65u to 100u with Food grade Coating. (Not over 0.2mm thickness)	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi
521	7616.9990	Aluminum Finstock in continuous length for air conditioning industry	Not exceeding 0.2mm thickness from 0.12mm to 0.20mm both side or one side with CPV Coating hydrophilic corrosion resistant (lacquered Blue, Golden & Silver)	--	--	Aluminum Processing Industries Int'l (Pvt) Ltd. D-76, S.I.T.E. Karachi
522	7901.1100 7901.1200 7901.2000	Zinc Dross	Fe(t) = 3.38%, Pb 0.41% Al=3.96%, Zn 91.70%	--	Fe(t) = 3.38%, Pb 0.41% Al=3.96%, Zn 91.70%	Pakistan Steel Bin Qasim P.O. Box. No.5429 Karachi-75000
523	8202.1000	Hand saws of base metal	Hand saw for wood cutting size 10 " to 36 "	1650 -1850 Nmm ²	Cr 1 . C .75 % Mn .7 % Cr .35 % si .04 %	Abid Industries CA 318 Goth Shah Beg Gabol Sector 16 B North Karachi
524	8202.3100	Steel Saws	Gang saw for stone cutting/Marble cutting	Tensile Strength 1350-1400 Nmm ²	Cr 1 , C75 , Mn .7 %Cr .35 % Si .04 %	Abid Industries CA 318 Goth Shah Beg Gabol Sector 16 B North Karachi
525	8202.3900	Steel Saws	Sizes 4 inch to 14 inch	Cr 1 , C 75 , C 60 . High Carbon alloy steel strip , High Carbon steel strip, Carbon steel strip	C 75 % , Si 0.4 , Cr 0.37 Mn 0.70 %	Abid Industries CA 318 Goth Shah Beg Gabol Sector 16 B North Karachi
526	8202.3900	Steel Saws	Circular saw for wood cutting sizes 4 " to 14"	Tensile Strength 1550 - 1750 Knmm ²	Cr 1 , C .75 % Mn .7 % Cr .38 % Si . 04%	Abid Industries CA 318 Goth Shah Beg Gabol Sector 16 B North Karachi
527	8203.2000	Hand Tools	Pliers, hand, base metal 4" to 6"	--	--	Qureshi Industries Behind Women Degree College Nizamabad (52020) Wazirabad Punjab, Dist. Gujranwala
528	8204.1100	Non-adjustable Spanners	8x10mm, 12x14mm, 16x17mm, 20x22mm, 24x26	--	--	Qureshi Industries Behind Women Degree College Nizamabad (52020) Wazirabad Punjab, Dist. Gujranwala
529	8205.4000	Hand Tools	Screwdrivers, base metal 2 way 4"	--	--	Qureshi Industries Behind Women Degree College Nizamabad (52020) Wazirabad Punjab, Dist. Gujranwala
530	8208.1000 8208.2000	Steel Blades	High Carbon Alloy Steel / High Carbon Steel Strip	CR 1 , C60-80 ,1450- 1700 Nmm ²	--	Abid Industries CA 318 Goth Shah Beg Gabol Sector 16 B North Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
531	8208.2000	Steel Blades	Wood cutting band saw blade size 10 mm -255 mmx0.5mm - 1.5 mm	High carbon alloy steel strip,carbon steel strip T S 1450 -1700 Nmm ²	C .75 , si 0.4 cr .35 mn .7 %	Abid Industries CA 318 Goth Shah Beg Gabol Sector 16 B North Karachi
532	8212.1000 8212.2000	Razors, non-electric	Double edge razor blades and plastic bonded disposable razor	--	--	Treet Corporation Limited 72-B, Kot Lakhpat Industrial Area, Lahore
533	8301.3000	Furniture Locks	Chrome plated	--	--	Babar Metal Industries E/34, Estate Avenue, S.I.T.E., Karachi
534	8303.0000	Metal Lockers	CRC sheet 0.5mm to 1.2mm	--	--	Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi
535	8304.0000	Shelvings of base metal	Mobile Shelving (Compressed Filing System), For offices. Shelving for Supermarkets & Stores.	--	--	Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi
536	8304.0000	Sorting Boxes for office use	Box Type Office and Base Metal for any Equipment	Skid mounted box type office, Living carvan, Kitchen, Laboratoires, Skid mounted medical treatment centre, toilets and rest houses etc.	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
537	8308.2000	Rivets	Aluminum Blind Rivets Guages : 3.00, 4.20 & 4.80mm Lengths: 5.00 to 25.00mm	Aluminium tubes with steel mandrel.	Al. 98% Si 0.4%, Cu 0.2%, Mn 0.2%, Mg. 0.5 to 1.1%, Cr. 0.1%	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area Karachi
538	8309.9000	Threaded Bungs and bung-covers	2", 3/4" British Standard	--	--	Babar Metal Industries E/34, Estate Avenue, S.I.T.E., Karachi
539	8311.1000	Metal Electrodes	ASTM, JIS All International Spec	--	--	Chaudhri Electrode Industries (Pvt) Ltd. 29 Km Lahore Sheikupura Road Lahore
540	8402.1110	Boiler Feed Water Heaters	For upto 350 MW Boilers ASME Sec. 1 / B.S.S. & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
541	8402.1110	Oil/gas/bagasse fired water tube boiler	Oil/gas/bagasse fired water tube boiler upto 200 ton/hr capacity and 87 bar pressure	--	--	Heavy Mechanical Complex (Pvt) Ltd., Taxila
542	8402.1110	Boilers, steam generating, watertube type	Upto 65 ton/hr, 40 kg/cm ² ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
543	8402.1120	Waste Heat Recovery Boiler	Waste Heat Recovery Boiler (WHRB) capacity up to 350 TPH & 150 Kg/cm ²	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 Haseeb Waqas Engineering Ltd. 103, B/1, M.M. Alam Road Gulberg.III Lahore Brothers Engineering Ltd. Lahore 135-Upper Mall, Lahore. Heavy Mechanical Complex (Pvt) Ltd., Taxila
544	8402.1120	Boilers, steam generating, watertube type	Waste Heat Recovery Boilers, 1.5 to 50T/PH Capacity & pressure upto 6 bar to 50kg/cm ² inclusive of Parts & equipments	--	--	DDFC (Pvt) Ltd. 73-G/II, Model Town, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
545	8402.1130	Heat Recovery Steam Generators	Heat Recovery Steam Generators (HRSG) 200 MW, water tube type. Single or multiple unit, behind all types of Gas Turbines, Diesel and Gas Engines & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
546	8402.1200	Packaged type boilers	upto 25 T/hr steam & pressure upto 24 Kg/Cm ² , & as per customers requirements	--	--	Haseeb Waqas Engineering Ltd. 103, B/1, M.M. Alam Road Gulberg.III Lahore Brothers Engineering Ltd. Lahore 135-Upper Mall, Lahore. DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
547	8402.1200	Boilers, steam generating, watertube type	Package Type Fire Tube Boilers, upto 30T/PH Capacity & pressure upto 24to50kg/cm ² inclusive of Parts & equipments	--	--	DDFC (Pvt) Ltd. 73-G/II, Model Town, Lahore
548	8402.1200	Boilers, steam generating, water tube type	Upto 65 ton/hr, 40 kg/cm ² ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
549	8402.1200	Boilers, steam generating, watertube type	From 4 HP TO 155 HP, Water tube boilers, 120,000 BTUS/HR to 5,200,000 BTUS/HR	External Draft Diverter, heavy duty frame construction to 30 Psi Standard and above as optional, Interior of Heater accessible for service and inspection	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi
550	8402.1200	Boilers, steam generating, watertube type	Forced Draft, Water Tube Heater With Natural Gas, 150,000 to 6,500,000 Btuh input	Heavy duty frame construction to 30 Psi and above	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi
551	8402.1200	Boilers, steam generating, watertube type	1 TPH ~ 100 TPH 1 BAR ~ 15 BAR ,5-30 TPH, 15 BAR	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi
552	8402.1200	Oil/gas/ fired, water tube, membrane walled boilers	Oil/gas/ fired, water tube, membrane walled boilers upto 45 tons/hr capacity & 64 Kg/cm ² pressure. Bagasse fired boiler of upto 45 tons/hr & pressure 42 Kg/cm ²	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
553	8402.1200	Boilers, steam generating, watertube type	Steam Generators from 100 to 1200 Kg/Hr steam output.	--	--	Fabricon (Private) Limited First Floor, Qazi House, ST-5, Block 16, Gulshan-e-Iqbal, Karachi-75300.
554	8402.1910	Fired Tube Boilers	More than 45 tons/ hr	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
555	8402.1910	Fired Tube Boilers	upto 45 tons/ hr	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
556	8402.1910	Fire tube boiler	Upto 25 ton/hr steam and 24 kg/cm ² pressure.	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
557	8402.1910	Fire tube boiler	Upto 10 ton/ hr capacity, Ø2550mm Design Code/ Standards: ASME Sec. I / B.S.S. & as per customers requirements	--	--	Heavy Mechanical Complex-3 Hattar Road, Taxila DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
558	8402.1910	Fire Tube Boiler	Up-to 30 TPH , 2PASS, 3 PASS and 4 PASS & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
559	8402.1910	Fire Tube Boilers	0.5 to 20 tons /hr steam or hot water as per ASME Codes and customers requirement	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
560	8402.1920	Waste Heat Recovery Boilers	More than 45 tons/ hr	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
561	8402.1920	Waste Heat Recovery Boilers	upto 45 tons/ hr	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
562	8402.1920	Waste heat boilers (WHB's)	ASME Sect. I or VIII 0.2 tons/ hr steam to as required by customers	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
563	8402.1920	Waste Heat Recovery Boilers	Behind Cement Kilns, Incinerators, Furnaces, Gen Sets & Other Process Applications Upto 136 Barg & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
564	8402.1930	Heat Recovery Steam Generators	Behind gas turbines, gen sets upto 275 mw	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
565	8402.1990	Complete Hybrid Boiler.	Saturated Steam, Furnace with Combustion Grate Deduster with accessories and auxiliary machinery for boiler comprising of boiler drum, economizer, draft fan and accessories	--	--	Descon Engineering Ltd. 2-Km Defence Road Off 24th Km, Multan Road, Chung, Lahore Gresham Eastern (Pvt) Ltd. F-302, S.I.T.E., Karachi SEFEC Engineering (Pvt) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
566	8402.1990	Boilers, vapour generating, excluding watertube type	Upto 20 ton/hr, 40 kg/cm ² ASME Sec. 1 / B.S.S. & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
567	8402.1990	Boilers, vapour generating, excluding watertube type	4 Pass , Fire Tube, 250 TO 1000 H.P.	Forced Draft, consisting, Shell, Fire Tubes, Tube Plates, ASME code	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi
568	8402.1990	Boilers, hybrid, excluding watertube type	1-15 TPH, 12 Bar, 500 Kg/hr to 1000 KG/hr 2 Bar to 10 Bar & as per customers requirement	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
569	8402.1110 8402.1190 8402.1200	Thermal power plants	Thermal power plants upto 360MW	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
570	8402.1110 8402.1190 8402.1200 8402.1910 8402.1990	Coal /Biomass Fired Steam Boilers	Travelling grate bed, Bubbling fluidized bed, Circulating fluidized bed	High pressure/Low pressure steam production	--	Descon Engineering Ltd. 2-Km Defence Road Off 24th Km, Multan Road, Chung, Lahore Gresham Eastern (Pvt) Ltd. F-302, S.I.T.E., Karachi Heavy Mechanical Complex Taxila SEFEC Engineering (Pvt) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi The Sitara Engineers Nishatabad, Sheikhpura Road
571	8402.1110 8402.1200	Water tube boilers	Direct Fired Water Tube Boiler Capacity up to 350 TPH & 150 Kg/cm ²	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
572	8402.1110 8402.1200	Boilers, steam generating, watertube type	UPTO 290 TPH, 136 Barg, 535°C	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
573	8402.1110 8402.1200	Boilers, steam generating, watertube type	50-100 TPH, 50-100 Bar	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi
574	8402.1920 8402.1930	Other boilers	Any type of boiler / waste heat recovery, heat recovery steam generator excluding water tube	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM. Multan Road, Lahore
575	8402.2000	Boiler Superheaters	For upto 350 MW Boilers ASME Sec. 1 / B.S.S. & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM. Multan Road, Lahore
576	8402.2000	Boilers, high pressure	Upto 65 ton/hr, 40 kg/cm ² ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
577	8402.2000	Boilers, high pressure	Upto 290 TPH, 136 barg, 535 C	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
578	8402.2000	Boilers, high pressure	10 TPH-100 TPH 250-550 °C 30~100 Bar	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi
579	8402.2000	Boilers, super-heated water	Upto 65 ton/hr, 40 kg/cm ² ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
580	8402.2000	Boilers, super-heated water	Capacity Up to 350 TPH, 150 BARG (water tube, fire tube, waste heat recovery boiler, heat recovery steam generator)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
581	8402.2000	Boilers, high pressure	Pressure Range : 1 BAR - 100 BAR Capacity: 1 TPH ~ 100 TPH	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi
582	8402.9090 7308.9090	Boiler Equipment	Drums, Chimneys, Steel Structure, Cuts/ Chutes for upto 350 MW Boilers ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
583	8402.9090	Drums for steam boilers	ASME, Corten Steel, Size as per capacity of boiler 3Ft Dia, 15 Ft Thickness - 5mm - 25mm 8" - 16" as per customers requirements	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi DDFC (Pvt.) Ltd. 27 KM. Multan Road, Lahore
584	8402.9090 and respective headings	Parts of Boiler	Parts/Accessories/Ancillaries of all types of Boilers like Drum, Deaerator, Economizer, Condenser, Evaporator, Tube Panel etc	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM. Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
585	8402.9090	Drums for steam boilers	ASME, Corten Steel, Size as per capacity of boiler 3Ft Dia, 15 Ft Thickness - 5mm - 25mm 8" - 16"	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi
586	8402.9090 and respective headings	Parts of Boiler	Parts/Accessories/Ancillaries of all types of Boilers like Drum, Deaerator, Economizer, Condenser, Evaporator, Tube Panel etc	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
587	8402.9090	Parts of boilers	Capacity Up to 350 TPH, 150 BARG (water tube, fire tube, waste heat recovery boiler, heat recovery steam generator)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
588	8403.1000	Boilers, central heating	Fire Tube, Dry Back, Boilers For Steam and Hot Water, All As Per AMSE Codes. 250 To 1000 H.P. , 3.8 Tons to 15.4 Tons	As per ASME Code	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi Haseeb Waqas Engineering Ltd. 103, B/1, M.M. Alam Road Gulberg, III Lahore
589	8404.1000	Boiler Economizers	For upto 350 MW Boilers ASME Sec. 1 / B.S.S. & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
590	8404.1000	Boiler De-aerators	For upto 350 MW Boilers ASME Sec. 1 / B.S.S. & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
591	8404.1000	Super-heaters, steam	For upto 350 MW Boilers ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
592	8404.1000	Accumulators, Steam storage	As per requirement	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
593	8404.1000	Collectors for steam boilers	As per requirement	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
594	8404.1000	De-super-heaters for steam or vapour-Generating	As per requirement	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
595	8404.1000	Preheaters, air, for steam or vapour-	As per requirement	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
596	8404.1000	Auxiliary Plant for use with boilers of heading 8402	<ul style="list-style-type: none"> • Economizer • Dearator • Air pre heater • Steam Coil Air Pre Heater • Evaporator • Silencer • Super Heater • Collector /Accumulator for Steam - Above equipments for water tube, fire tube, waste heat recovery boiler, heat recovery steam generator of capacity Up to 350 TPH, 150 BARG)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
597	8404.1000	Auxiliary Plants - Economizer	For upto 20 tons steam boiler, as per customers requirement.	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
598	8404.1000	Auxiliary Plants - Super Heater	For upto 20 tons steam boiler, as per customers requirement.	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
599	8404.1000	Auxiliary Plants - Boiler Feed Water unit	For upto 20 tons steam boiler, as per customers requirement.	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
600	8404.2000	Boiler Condensers	For upto 350 MW Boilers ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
601	8404.2000	Condensers, Mixing Steam	Evaporators Vapor Cells, Falling Film Evaporators, Vacuum Pans,	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
602	8404.2000	Condensers, steam	For upto 350 MW Boilers ASME Sec. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
603	8404.2000	Condensers, mixing, steam	Evaporators, Vapour Cells, Falling Film Evaporators, Vacuum Pans, Vacuum Filters, Pressure Filters, Crystallizers, Heat Exchangers, Gas Scrubbers, Multi Trays Clarifiers, Multi Jet Condensers, Cascade Condensers, Rain & Shower Type Condensers, Fluidized Bed Dryers, Counter Flow Dryers, Rotary Dryers. In accordance to ASME Sec 1, TEMA HEI	1) Evaporators upto 5500 mm dia & 10050 mm length. 2) Shell & Tube Type Pre Condensers upto 1700 mm dia & 6000 mm length. 3) Vertical Condensers upto 2012 mm dia & 6800 mm length. Horizontal Condensers upto 2012 mm dia & 6800 mm length. 4) Shell & Tube type Heat Exchangers upto 1700 mm dia & 5000 mm length. 5) Shell & Tube type evaporators upto 5500 mm dia & 14000 mm length.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
604	8404.2000	Condensers for steam or other vapour power units	Capacity up to 350 TPH & 150 BARG for (water tube, fire tube, waste heat recovery boiler, heat recovery steam generator)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
605	8404.2000	Condensers, steam	Steam heating Coils 1HP, 1.5 HP, 2HP, 2.5HP, 3HP, 5HP, 7.5HP, 10HP, 20HP, 30HP, 40HP, 50HP, 60HP and 80HP & as per customers requirements	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
606	8404.2000	Condensers, mixing, steam	Chilled Water Coils (Aluminium Fins-Coated & Un-coated) 6HP, 10HP, 12.5HP, 18HP, 25HP, 30HP, 38HP, 50HP, 60HP, 75HP and 100HP Chilled Water Coils (Copper Fins) 10HP, 20HP, 30HP, 40HP, 50HP, 60HP and 80HP Shell & Tube (Condensers/ Evaporators & Chillers) 3HP, 5HP, 7.5HP, 10HP, 15HP, 50HP and 75HP.	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore
607	8408.9000	Single Cylinder Diesel Engines	3HP to 36 HP	--	--	Best Engineers 31-KM Ferozepur Road, Lahore Perfect Engineering Company Moza Bahi Kot, Raiwind, Industrial Estate, Raiwind, Lahore Kam Engineering (Pvt) Ltd. Behind Glaxo Lab. Off 19 Km Ferozepur Road, Lahore Naveed Brothers 23-KM Multan Road, Mohlanwal Lahore
608	8410.9010	Parts of Hydraulic turbines, water wheels, and regulators	Parts including regulators i.e. Radial Gates. Draft tube gates, fixed wheel gates, bulk head gates, penstock, draft tube, tail race liners, spirla/ involute turbine casing, head covers, botton rings, trash rack, sill beams, stop logs, wicket gates etc. (For any type and range)	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
609	8410.9090	Regulators for hydraulic turbines and water wheels	Penstocks of upto 10.6M dia x 40mm thickness AISI, BS-7191, BS-5950	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
610	8410.9090	Penstocks	Penstocks	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
611	8413.1100	CNG Dispenser	--	--	--	Tesla Industries Pvt. Ltd. Plot No. 81-F, St. 6, I-10/3 Islamabad Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad Advance Electronics International L/21-D, Block-21, F.B. Industrial Area, Rashid Minhas Road, Karachi – 75700
612	8413.3090	Gear Oil Pump	Sizes a) Outer Dia upto 80mm b) Height upto 35mm As per customers requirements.	Hardness of upto 90 HRB. Also includes Grindings & other secondary operations	Iron / Steel.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area Karachi
613	8413.7010	Centrifugal pumps (Submersible)	Submersible motor sewage disposal pumps with non clogging impeller	DN: 100-175, Q upto 480 m ³ /hr, H upto 250 m.	Cast Iron (GG-25), SS, Duplex and Super Duplex	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
614	8413.7010	Centrifugal pumps (Submersible)	submersible motor water lubricated vertical bore hole single or multistage pumps	DN: 75-350, Q upto 840 m ³ /hr, H upto 480m.	Cast Iron (GG-25), Bronze (G-CuSn10), SS, Duplex, Super Duplex	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
615	8413.7090	Centrifugal pumps	Stainless Steel Submersible Bore Hole Pump	--	--	HMA Pumps 604, Israr Plaza, Ground Floor, Near Lane No. 5 Main Peshawar Road, Rawalpindi Cantt. KSB Pumps Co. Ltd. 16/2, Sir Agha Khan Road, Lahore
616	8413.7090	Centrifugal pumps	Horizontal centrifugal pumps with non-clogging impeller (Excluding API 610 and NACE MR 0175 compliance)	DN: 40-700, Q: upto 10000 m ³ /hr, H upto 100m.	Cast Iron (GG-25), Bronze (G-CuSn10), Ni Resist D-2, SS (1.4408), Duplex and Super Duplex	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
617	8413.7090	Centrifugal pumps	Single stage, Axially split volute casing pump with double flow impeller (Excluding Jet pumps and downhole positive displacement pumps for artificial lift from oil wells alongwith spares)	DN: 200-350, Q: 2900 cu m/hr, H upto 100 m.	Cast Iron (GG-25), Stainless Steel	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
618	8413.7090	Centrifugal pumps	High pressure multistage pump in ring section design	DN: 40-150, Q: 760 m ³ /hr, H: 630m (max pressure 63 bars)	Cast Iron (GG-25), Cast Steel (GS-C25N)	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
619	8413.7090	Centrifugal pumps	Vertical single stage sewage and effluent disposal pumps in wet and dry pits design with non clogging impeller.	DN:65-700,Q upto 10000 m ³ /hr, H upto 85 m.	Cast Iron (GG-25), Bronze(G-CuSn10), Wear Resist Nickel Cast Iron (ERN),Austenitic NiCrMo,Stainless Steel(1.4408),Creep Resist Ferritic,Cast Steel,Duplex and Super Duplex.	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
620	8413.7090	Centrifugal pumps	Vertical line shaft bore hole single or multistage pump (Excluding jet pumps and down hole positive displacement pumps artificial lift from oil wells along with spares)	DN: 80-500,Q upt 2600 m ³ /hr, H upto 250 m.	Cast Iron (GG-25),Bronze (G-CuSn10),Ni-Resist D2 (ERN), Duplex and Super Duplex	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
621	8413.7090	Centrifugal pumps	Tubular Casing pumps	DN: 300-800, Q upto 9500 m ³ /hr, H upto 50 m.	Cast Iron (GG-25),Ni-Resist D2,Stainless steel, Duplex and Super Duplex.	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
622	8413.7090	Centrifugal pumps	Multistage Vertical / Horizontal High Pressure Centrifugal Pump (CR) [Excluding High Pressure / Alloy Steel / API / NACE Standard Compliant]	DN 25-125. Q: up to 120 m ³ /h,H: 320 m	Cast Iron (CG-25), Stainless Steel DIN W.- Nr. (1.4301),AISI (304),Temp: 120 C°	HMA Pumps (Pvt) Ltd. B-12 , 2nd Floor , Sultan Centre , 11 - West Wharf Road Karachi
623	8413.7090	Centrifugal pumps	Booster Pumping Station [Excluding High Pressure / Alloy Steel / API / NACE Standard Compliant]	DN 25-125. Q: up to 420 m ³ /h,H: 200 m	Cast Iron (CG-25), Stainless Steel DIN W.- Nr. (1.4301),AISI (304),Temp: 120 C°	HMA Pumps (Pvt) Ltd. B-12 , 2nd Floor , Sultan Centre , 11 - West Wharf Road Karachi
624	8413.7090	Centrifugal pumps	Deep Well Turbine Pumps (BP) [Excluding High Pressure / Alloy Steel / API / NACE Standard Compliant]	DN 75-150. Q: up to 5-280 m ³ /h,H: 200 m	Cast Iron (CG-25), Stainless Steel DIN W.- Nr. (1.4301),AISI (304/316),Temp: 120 C°	HMA Pumps (Pvt) Ltd. B-12 , 2nd Floor , Sultan Centre , 11 - West Wharf Road Karachi
625	8413.7090	Centrifugal pumps	Bore Hole Submersible Pump (SP) [Excluding High Pressure / Alloy Steel / API / NACE Standard Compliant]	DN 25-125. Q: up to 280 m ³ /h,H: 600 m	Stainless Steel DIN W.- Nr. (1.4301),AISI (304),Temp: 120 C°	HMA Pumps (Pvt) Ltd. B-12 , 2nd Floor , Sultan Centre , 11 - West Wharf Road Karachi
626	8413.7090	Centrifugal pumps	End Suction Single Stage Centrifugal Pump (NB/NP) [Excluding High Pressure / Alloy Steel / API / NACE Standard Compliant]	DN 32-200. Q: up to 450 m ³ /h,H: 120 m	Pump Housing Cast Iron (EN-GJL-250),Impeller Cast Iron / Bronze (EN-GJL-250/ CuSn10),Temp: 120 C°	HMA Pumps (Pvt) Ltd. B-12 , 2nd Floor , Sultan Centre , 11 - West Wharf Road Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
627	8413.7090	Self-Priming, Centrifugal, High-Pressure Pumps	Size: DN 38x38mm to DN 100x100mm Flow: 50 gpm (11.4 cu.m/hr) to 700 gpm (159 cu.m/hr) Pressure/Head: 20 ft (6m) to 475 ft (145m)	Pump Casing: Ductile Iron ASTMA48 / Aluminum / Copper Alloy. Impeller: Close-Type, 5 To 6-Vanes. Cast Steel ASTMA48 / Bronze/ Copper Alloy / S.S. Impeller Shaft: Stress Proof Steel SAE1144 Wearing & Back Plates: ASTMA48 / Aluminum / Copper Alloy Flanges: ASTMA48 / Aluminum / Copper Alloy Gasket & O-Rings: Buna-N / Compressed Synthetic Rubber Mechanical Seal: Self-lubricated, self-aligning, double floating seal sustains max. liquid temperature up to 160F or 71°C.	--	Meraj Limited Plot No. 11, Sector 15, Korangi Industrial Area, P.O. Box 3135, Karachi – 74900
628	8413.7090	Self-Priming, Centrifugal (Non-Clog) Trash Pumps/ Irrigation pumps	Size: DN 50x50 to DN 300x300mm Flow: 10 gpm (2 cu.m/hr) to 5600 gpm (1272 cu.m/hr) Pressure/Head: 10 ft (3m) to 140 ft (43m)	Pump Casing: Ductile Iron ASTMA48 / Impeller: Close-Type, 2 To 5-Vanes. Cast Steel ASTMA48 Impeller Shaft: Stress Proof Steel SAE1144 Wearing & Back Plates: ASTMA48 Flanges: ASTMA48 Gasket & O-Rings: Buna-N / Compressed Synthetic Rubber Mechanical Seal: Self-lubricated, self-aligning, double floating seal sustains max. liquid temperature up to 160F or 71°C.	--	Meraj Limited Plot No. 11, Sector 15, Korangi Industrial Area, P.O. Box 3135 Karachi – 74900
629	8413.7090	Combined Normal and High Pressure Fire Pump	--	--	--	Meraj Limited Plot No. 11, Sector 15, Korangi Industrial Area, Karachi
630	8413.7090	Gland Pump Centrifugal Single stage end suction top discharge horizontal Shaft Tool mounted Pump.	Head : 15-210 feet Discharge : 3180-50 US gmp	Casing : S. S. (Commercial), Cast Iron Shaft : S.S., Carbon Steel Impeller : S.S., Bronze, Cast Iron Stuffing Box : Gland Packing, Mechanical Seal.		Golden Pumps (Pvt) Ltd. G.T. Road Gujranwala
631	8413.8190	Pumps	RPH PumpsHorizontal & Vertical, Split case configuration in accordance with API 610 (11th Edition) suitable for all API Pump applications in chemical, Oil & Gas sector,energy and petrochemical industry	DN:25-400,Q upto 4150 m ³ /hr, H upto 270 m,T:-70C to 450C.	Available in all types of material cmbination in accordance with API 610/ISO 13709	KSB Pumps Company Limited, 16/2, Sir Agha Khan Road, Lahore
632	8413.8190	Pumps	Horizontal volute casing and suction pump with radial vane impeller (Excluding API 610 and NACE MR 0175 Compliance)	DN:32-300,Q upto 1900 m ³ /hr, H upto 102 m.	--	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
633	8413.7090 8413.8190	Pumps	RPK Type in accordance with API 610 (6th Edition). (Excluding Jet Pumps and downhole positive displacement pumps for artificial lift from Oil Wells Alongwith spares)	DN: 80-100 Q: up to 270 cumetre/hr H: up to 58 m RPM: up to 2900	Available in Cast Steel (GS-C25N) and Stainless -Steel (1.4408) in accordance with API 610 Material Combinations	KSB Pumps Company Limited 16/2, Sir Agha Khan Road, Lahore
634	8414.5110	Ceiling Fans	80-88 Volts, not over 125 W	Grade - A	--	Metro Hi-Tech (Pvt.) Ltd., G.T. Road, Gujrat Yunas Metal Works (Pvt) Ltd. (Yunas Fan) Yunas Colony, G. T Road Gujrat
635	8414.5110	Ceiling Fans	Size: 56", Volts: 220/230, RPM: 315, Cycle: 50, Type: Capacitor, Watts: 70, Air Displacement cu.ft. /min: 12000, Service Value: 170 Size: 48", Volts: 220/230, RPM: 330, Cycle: 50, Type: Capacitor, Watts: 62, Air Displacement cu.ft. /min: 8500, Service Value: 140 Size: 36", Volts: 220/230, RPM: 400, Cycle: 50, Type: Capacitor, Watts: 55, Air Displacement cu.ft. /min: 6500, Service Value: 130	--	--	Wahid Industries Ltd. G. T. Road, Gujrat Yunas Metal Works (Pvt) Ltd. (Yunas Fan) Yunas Colony, G. T Road Gujrat
636	8414.5120	Pedestal Fan	Size: 20", Volts: 220/230, RPM: 1300, Cycle: 50, Type: Capacitor, Watts: 75, Air Displacement cu.ft. /min: 3500, Service Value: 46 Size: 22", Volts: 220/230, RPM: 1250, Cycle: 50, Type: Capacitor, Watts: 80, Air Displacement cu.ft. /min: 5000, Service Value: 50 Size: 24", Volts: 220/230, RPM: 1250, Cycle: 50, Type: Capacitor, Watts: 110, Air Displacement cu.ft. /min: 6000, Service Value: 48 Size: 26", Volts: 220/230, RPM: 950, Cycle: 50, Type: Capacitor, Watts: 110, Air Displacement cu.ft. /min: 6000, Service Value: 46	--	--	Wahid Industries Ltd. G. T. Road, Gujrat Super Asia Group of Companies Near Lahori Octori, G. T Road Gujranwala Yunas Metal Works,(Pvt) Ltd. (Yunas Fan) Yunas Colony, G. T Road Gujrat CECO Electrical Industries G.T Road Gujrat
637	8414.5130	Table Fans,	--	--	--	Super Asia Group of Companies Near Lahori Octori, G. T Road Gujranwala Yunas Metal Works (Pvt) Ltd. (Yunas Fan) Yunas Colony, G. T Road Gujrat CECO Electrical Industries G.T Road Gujrat
638	8414.5130	Table Fans	1400mm Size = 56" Volts = 220v RPM=325 Cycles = 50 Type= Capacitor Watts = 80 Air Displacement Cft/Min = 8825 Service Value = 110.31	--	--	General Fan Company (Pvt) Ltd. G.T. Road, Gujrat Yunas Metal Works,(Pvt) Ltd. (Yunas Fan)

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
639	8414.5130	Table Fans	Size: 16", Volts: 220/230, RPM: 1350, Cycle: 50, Type: Capacitor, Watts: 55, Air Displacement cu.ft. /min: 2500, Service Value: 45 Size: 18", Volts: 220/230, RPM: 1350, Cycle: 50, Type: Capacitor, Watts: 65, Air Displacement cu.ft. /min: 3000, Service Value: 46	--	--	Wahid Industries Ltd. G. T. Road, Gujrat Yunas Metal Works,(Pvt) Ltd. (Yunas Fan) Yunas Colony, G. T Road Gujrat
640	8414.5140	Exhaust Fans	Size: 8", Volts: 220/230, RPM: 1400, Cycle: 50, Type: Capacitor, Watts: 30, Air Displacement cu.ft. /min: 800, Service Value: 27 Size: 10", Volts: 220/230, RPM: 1400, Cycle: 50, Type: Capacitor, Watts: 35, Air Displacement cu.ft. /min: 1000, Service Value: 29 Size: 12", Volts: 220/230, RPM: 14000, Cycle: 50, Type: Capacitor, Watts: 50, Air Displacement cu.ft. /min: 1500, Service Value: 30 Size: 16", Volts: 220/230, RPM: 950, Cycle: 50, Type: Capacitor, Watts: 85, Air Displacement cu.ft. /min: 2500, Service Value: 38 Size: 18", Volts: 220/230, RPM: 950, Cycle: 50, Type: Capacitor, Watts: 85, Air Displacement cu.ft. /min: 3000, Service Value: 40 Size: 24", Volts: 220/230, RPM: 900, Cycle: 50, Type: Capacitor, Watts: 140, Air Displacement cu.ft. /min: 6000, Service Value: 43	--	--	Wahid Industries Ltd. G. T. Road, Gujrat Yunas Metal Works,(Pvt) Ltd. (Yunas Fan) Yunas Colony, G. T Road Gujrat
641	8414.5140	Exhaust / vent Fans (Various Types);	300 to 129,000 cfm	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad
642	8414.5190	Box Fans/Misting Fan	1400mm Size = 56" RPM = 325 Cycles = 50 Type = Capacitor Watts = 80 Air Displacement CFT/Min = 8825 Service Value = 110.31	--	--	General Fan Company (Pvt) Ltd. G.T. Road, Gujrat
643	8414.5190	Other (Fans)	Bracket Fan: Size: 16", Volts: 220/230, RPM: 1350, Cycle: 50, Type: Capacitor, Watts: 50, Air Displacement cu.ft. /min: 2500, Service Value: 45 Size: 18", Volts: 220/230, RPM: 1300, Cycle: 50, Type: Capacitor, Watts: 65, Air Displacement cu.ft. /min: 3000, Service Value: 46 Plastic Louver Fan: Size: 14", Volts: 220/230, RPM: 1350, Cycle: 50, Type: Capacitor, Watts: 55, Air Displacement cu.ft. /min: 2000, Service Value: 36	--	--	Wahid Industries Ltd. G. T. Road, Gujrat
644	8414.5990	Industrial fans	Industrial fans of rotor diameter upto 1.6 meter	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
645	8414.5990	Industrial Fans	Type: Axial and Centrifugal Types of Centrifugal Fans: Backward, Forward, Radial Air Flow Rate Range: 1000 to 500,000 CFM Static Pressure Range: 0.1 to 150 inch of WG	Material: Aluminum, Stainless Steel, FRP	--	Jalal Engineering B-425, Block 13, F.B. Area, Karachi – 75900
646	8414.8040	Air Curtains	680 to 1355 cfm	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore □
647	8414.8090	Compression Skid	Reciprocating Types	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
648	8415.1010	Air Conditioners:	Window or wall type	Window or wall type	--	Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Pakistan Elektron Ltd (PEL) 14-km, Ferozepur Road Lahore Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi
649	8415.1020	Air-conditioners, self-contained,	12000BTU to 60000-BTU	Split Type	--	Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Pakistan Elektron Ltd (PEL) 14-km, Ferozepur Road Lahore Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
650	8415.1020	Air Conditioners:	Self contained or split type comprising of inner and outer unit 48,000 to 240,000 BTU/hr	Self contained or split type	--	<p>Habibullah Industries (Pvt)Ltd, 3rd Floor,Progressive Plaza, Beamount Road,Civil Lines Karachi</p> <p>Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore</p> <p>Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore</p> <p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi</p>
651	8415.1020	Air-conditioners	Split Type 12000BTU to 60000-BTU	Self contained or split type	--	<p>Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore</p> <p>Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore</p> <p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
652	8415.1010 8415.1090	Air-conditioners, self-contained, wall type	9000 BTU, 12000 BTU, 18000 BTU, 24000 BTU along with commercial HVAC equipment upto 60000 BTU	--	--	<p>Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore</p> <p>Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore</p> <p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi.</p>
653	8415.8100	Air Conditioners	Wall/floor/ceiling/cassette type etc.(9,000 to 30,000 Btu/hr)	--	--	<p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore</p> <p>Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.</p> <p>Habibullah Industries (Pvt) Ltd. 3rd Floor, Progressive Plaza, Beamount Road, Civil Lines, Karachi.</p> <p>Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
654	8415.8100	Air Cooled Self contained Air Conditioners;	39,000 to 471,000 Btu/hr	--	--	<p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore</p> <p>Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.</p> <p>Habibullah Industries (Pvt) Ltd. 3rd Floor, Progressive Plaza, Beamount Road, <u>Civil Lines, Karachi</u></p>
655	8415.8100	Trolley mounted self contained units	50,400 to 600,000 Btu/hr	--	--	<p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore</p> <p>Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.</p> <p>Habibullah Industries (Pvt) Ltd. 3rd Floor, Progressive Plaza, Beamount Road, <u>Civil Lines, Karachi</u></p>
656	8415.8100	Air Cooled Split Type,Em Series (Cooling/Heating)	49,200 / 49,500 Btu/hr	--	--	<p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad</p> <p>Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore</p> <p>Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.</p> <p>Habibullah Industries (Pvt) Ltd. 3rd Floor, Progressive Plaza, Beamount Road, <u>Civil Lines, Karachi</u></p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
657	8415.8100	Water Cooled Packaged Air Conditioners;	45,000 to 498,000 Btu/hr	--	--	Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad. Habibullah Industries (Pvt) Ltd. 3rd Floor, Progressive Plaza, Beamount Road, Civil Lines, Karachi
658	8415.8100	Hybrid Cooling System	--	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad
659	8415.8100	Air Conditioning/ Heating Unit	--	--	--	Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.
660	8415.8100	Free Cooling Unit, Flexi Box 450/48 TWCA	--	--	--	Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore
661	8415.8200	Fan coil units	Other, incorporating a refrigerating unit. Fan Coil Units Ceiling Suspended ducted type, Fan Coil Units with Sheet Metal Body Industrial type. Computer Room Airconditioners 48,000 to 240000 BTU's /HR.with Humidifiers & Electric Heater.	--	--	Habibullah Industries (Pvt)Ltd, 3rd Floor,Progressive Plaza, Beamount Road,Civil Lines Karachi Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
662	8415.8300	Air Handling Units	1500 to 50,000 cfm - Horizontal draw through - Vertical draw through - Multi Zone blow through - Single Zone blow through - Double Skin	Construction with Bio-Pharma grade material and specified filters to control microbial counts. Plug Fan and Frequency Devices (VFDs) for pharmaceuticals industry.	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad Habibullah Industries (pvt) Ltd. 3rd Floor, Progressive Plaza, Beaumont Road, Civil Lines, Karachi Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad
663	8415.8300	Fan Coil Units	300 to 1600 cfm	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore □
664	8415.8300	Electric Steam Humidifiers;	Steam output: (3.0 & 6.0 kg/Hr)	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad
665	8415.8300	Hot Water Generators (Gas Fired);	Heating capacity: 35,000 to 360,000 & as per customers requirements	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
666	8415.8300	Air handling/ Humidification / Filtration Plant	All Types and Sizes Made up of G.I. sheets, M.S. Sheets, Angle Irons & Al Sheets etc.	For Textile Mills (Spinning, weaving, Knitting) Power Plants, Tobacco Factories, Paper Plants etc. etc.	--	Manstock Engineering Company (Pvt) Ltd. 11/A (Commercial), 2nd Floor, Sector XX, Kh.- e-Iqbal, Phase-3, Lahore Cantt.

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
667	8415.1020 8415.1090 8415.8100 8415.8300	Air Conditioners:	<ul style="list-style-type: none"> - Packaged Type 02-60 HP - Split Type ES Series 0.75 Ton to 2.5 Ton - EQ Series LCD Display 1.0 Ton to 1.25 Ton - Window type A/C 1.5 Ton to 2.5 Ton - Air cooled self contained 4-30 Tons - Air Cooled split packaged 4-30 Tons - A/Cs with ducted and vertical Cabinet Ttype evaporators - EM Series floor standing plastic body 1.5 - 4.25 Tons - Cassette type EY series 1.5 - 6.0 Tons - Water / air cooled packaged type A/Cs 4-42 Tons 	--	--	<p>Habibullah Industries (Pvt)Ltd, 3rd Floor,Progressive Plaza, Beamount Road,Civil Lines Karachi</p> <p>Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore</p> <p>Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad</p> <p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.</p>
668	8415.9011 8415.9019	Evaporators, refrigerating	Evaporators (for Air Conditioners) 1HP (old model), 1HP (new model), 1.5HP (old model), 1.5HP (new model), 2HP, 2.5HP, 3HP, 5HP, 7.5HP, 10HP, 15HP, 20HP, 30HP, 40HP, 60HP, 80HP and 120HP.	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore
669	8415.9029	Condensers for Air- conditioners,	Condensers (Air-conditioners) (Coated & Uncoated) 1HP (old model), 1HP (new model), 1.5HP (old model), 1.5HP (new model), 2HP, 2.5HP, 3HP, 5HP, 7.5HP, 10HP, 15HP, 20HP, 30HP, 40HP, 60HP, 80HP and 120HP.	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore
670	8415.9099	Cooling & Heating Coils used in air conditioners	Custom Made	--	--	<p>Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad</p> <p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore □</p>
671	8417.1010	Kilns, non-electric	Kiln upto 5000 mm dia x 65 mm thickness Capacity upto 4,000 TPD Cement Plants "HEI" (Heat Exchange Institute)	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
672	8417.1010	Kilns, non-electric	As per requirement	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
673	8417.1010	Kilns, non-electric	As per fabrication drawings and Client's requirement.	Rotary Kilns upto 556 Tons weight for Cement Plants.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
674	8417.1010	Kilns for cement plants	Kilns for cement plants of all capacities	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
675	8417.1010	Kiln for Cement Plant	As per requirement	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
676	8417.1090	Furnaces, Industrial , non-electric,	Heaters/Furnaces for Refineries and Fertilizer Plants upto 100,000 bpd & 970 tpd respectively "HEI" (Heat Exchange Institute)	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
677	8418.1000	Refrigeration/ freezing/air conditioning machines;	Combined refrigerator-freezers, fitted with separate external doors	--	--	Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore United Refrigeration Industries Ltd. and Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi
678	8418.2100	Refrigeration/ freezing/air conditioning machines;	Refrigerators, House hold type (Compression type)	--	--	Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore United Refrigeration Industries Ltd. and Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi
679	8418.2100	Refrigerators, compression-type, electrical, domestic	Combined refrigerator-freezers, fitted with separate external doors	--	--	Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore United Refrigeration Industries Ltd. and Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi
680	8418.2900	Refrigeration/ freezing/air conditioning machines;	-Refrigerators (direct cool/no-frost) -Deep Freezers, -Triplet Freezers -Bottle coolers	--	--	Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore United Refrigeration Industries Ltd. and Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi Varioline Intercool Pakistan (Pvt) Ltd. 3-KM Kahna Kacha Road Kahna Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
681	8418.3000	Refrigeration/ freezing/air conditioning machines;	Freezers of the chest type, not exceeding 800 l capacity	--	--	<p>Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore</p> <p>Cool Industries (Pvt) Limited 9th KM Multan Road Hanjarwal Lahore</p> <p>United Refrigeration Industries Ltd. and Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi</p> <p>Varioline Intercool Pakistan (Pvt) Ltd. 3-KM Kahna Kacha Road Kahna Lahore</p>
682	8418.4000	Refrigeration/ freezing/air conditioning machines;	Freezers of the upright type, not exceeding 900 litres capacity	--	--	<p>Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore</p> <p>United Refrigeration Industries Ltd. and Dawlance (Pvt) Ltd. Dawlance Centre, 7/4 Civil Lines 9, Dr. Ziauddin Ahmed Road, Karachi</p>
683	8418.5000	Refrigeration/ freezing/air conditioning machines;	Other furniture (chests, cabinets, display counters, show-cases and the like) for storage and display, incorporating refrigerating or freezing equipment.	--	--	<p>Pakistan Elektron Ltd (PEL) 14-km, Ferozepur Road Lahore</p> <p>Cool Industries Ltd (Waves) 9th KM Multan Road, Hanjarwal, Lahore</p> <p>Varioline Intercool Pakistan (Pvt) Ltd. 3-Km, Ferozepur Road, Lahore</p> <p>Mumtaz Engineering (Pvt) Ltd. 141- Industrial Area, Kot Lakhpat Lahore</p>
684	8418.6910	Milk Cooling Tanks	Milk chillers, direct expansion and ice bank type, capacities : uptill 3400 liters , manufactured under license from "packo Inox-belgium"	--	--	<p>Unitech International (Pvt.) Ltd. Plot # 09, Holiday Park, Musharafabad , Raiwind Road, Lahore.</p>
685	8418.6990	Cold Storage Units	Not below (-4°C) temp.	--	--	<p>Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad</p> <p>Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore</p> <p>Pakistan Insulations (Pvt.) Ltd. 107 Business Avenue PECHS BLock-6, Karachi</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
686	8418.6990	Refrigerated containers/Cold Rooms/Walk ins Refrigeration Units and Insulated Reefer Boxes	Refrigerated Containers suitable for mounting on locally manufactured vehicles/chasis. Cold Rooms, Walk ins	--	--	Kold Kraft (Pvt) Ltd, 247/S, Industrial Estate Kot Lakhpat, Lahore Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Technologies (Pvt) Ltd. Plot No. 270 Industrial Triangle Kahuta Road Islamabad Pakistan Insulations Pvt. Ltd. 107 Business Avenue PECHS BLock-6, Karachi Varioline Intercool Pakistan (Pvt) Ltd. 3-KM Kahna Kacha Road Kahna Lahore
687	8418.6990	Air Cooled Packaged Water Chillers;	34,800 to 1944,000 Btu/hr	--	--	Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad. Habibullah Industries (Pvt) Ltd. 3rd Floor, Progressive Plaza, Beamount Road, Civil Lines, Karachi
688	8418.6990	Water Cooled Packaged Water Chillers	40,200 to 2180,400 Btu/hr	--	--	Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore Ageco (Pvt) Ltd. Office No. 7&8, 1st Floor, Hill View Plaza, Blue Area, Islamabad.

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
689	8418.6990	Flooded Type Water Cooled Chiller	--	--	--	Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore Sabro Group (S.a Brother) Street No. 77,78, Sector I-9/2 Islamabad Petal Engineering (Pvt) Ltd 10 Umar Khan Road, Manawan near Batapur Lahore
690	8418.9100	Evaporators, refrigerating	--	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore Varioline Intercool Pakistan (Pvt) Ltd. 3-KM Kahna Kacha Road Kahna Lahore
691	8418.9100	Coolers, evaporative air	Evaporators for Deep Freezers and Visi Coolers 1/5HP, 1/4HP, 1/3HP and 1/2hp	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore
692	8418.9990	Condensers for Deep Freezers & Water Coolers	Condensers (For Deep Freezers & Visi Coolers) 1/5HP, 1/4HP, 1/3HP and 1/2HP	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore Varioline Intercool Pakistan (Pvt) Ltd. 3-KM Kahna Kacha Road Kahna Lahore
693	8418.9990	Condensers, refrigerating	Condensers for Refrigerators (Sheet on Tube) 1/16HP, 1/12HP, 1/10HP, 1/8HP, 1/6HP, 1/5HP, 1/4HP and 1/3HP. Condensers for Refrigerators (Wire on Tube) 1/12HP, 1/10HP, 1/8HP, 1/6HP, 1/5HP, 1/4HP and 1/3HP. Bunch Condensers for Deep freezers & Water Coolers (Wire on Tube) 1/2HP - 8 Row, 1/3HP - 6 Row, 1/4HP - 4 Row 1/5HP - 4 Row, 1/6HP - 3 Row, 1/8HP - 2 Row	--	--	Breeze Frost Industries (Pvt) Ltd. Harbanspura Road, P.O. Tajpura, Lahore
694	8418.9990 8419.5000 8419.4000	Falling Film Evaporator	Heating Surface 55m2 Surface	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
695	8418.9990 8479.8990	Pig Launcher/ Reciever	As per requirement	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
696	8419.3900	Dryer	All Types and Sizes (except for vaccum dryers used in Tanneries)	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpura, G.T. Road Gujranwala SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi Heavy Mechanical Complex (Pvt) Ltd. Taxila
697	8419.3900	Spray Dryer Machine with all standard accessories	--	--	--	SEFEC Engineering (Pvt) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
698	8419.4000	Crude Oil Distillation Towers/Columns	For Refineries of upto 100,000 bpd and for Chemical, Petrochemical & Fertilizer Plants. Diameter x Height x Wall Thickness of Towers/Columns range from 1500-3500 mm x 10000mm - 35000mm x 10-50mm. ASME Sec. VIII Div. 1 & 2	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
699	8419.4000	Plant, distilling, Industrial	As per fabrication drawings and Client's requirement. In accordance to ASME Sec VIII, Div 1 & 2 / B.S.S. & as per customers requirements	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
700	8419.4000	Distilling or rectifying plant	Refinery/ Oil & Gas Distillation Towers Type = Atmospheric Pressure, Pressure and Vacuum Type Distillation Towers Pressure range = Full Vacuum to 1500 PSI Temperature Range = -100 F to 600 F Material used = Carbon Steel, Normalized Carbon Steel, Stainless Steel and Alloy Steel Maximum Length = 40000mm & Max. dia = 3400mm Wall thickness = 5mm thk to 50.8mm thk & as per customers requirements	--	--	Petrosin Ravi Industries Ltd. Shahra-i-Pakistan Kala Shah Kakoo G.T Road Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
701	8419.4000	Crude Oil Distillation Tower/ Column	For Refineries, Chemical, Petrochemical, Fertilizer	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
702	8419.4000	Ethanol Plant/ equipment	Upto 100,000 L / day	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
703	8419.4000	Distillation Plant		--	--	FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi
704	8419.4000	Oil Distiller	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
705	8419.4000 8419.5000 8419.8990 and respective headings	Absorption Tower, Columns, Process Reactors, Heat Exchange, Condensers, Air Coolers, LPG/Oil/LNG Storage Tanks, Heat Recovery Boilers, Steel Structure, Process and Utility Piping, Gas Sweetning Unit, Amine Absorption, Flare Stack System, LPG Recovery Unit, Sulphur Recovery Unit.	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
706	8419.5000	Heat Exchangers	Shell & Tube Type (as per TEMA standard for oil /gas processing, chemical & fertilizer plants) Range upto 2500psi & as per customers requirements	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
707	8419.5000	Heat exchange units, Industrial	Shell & Tube Type of Carbon, Alloy & Stainless Steel. Fixed & Floating Tube sheets with straight & U-Tubes. Air Cooled with Finned Tubes of Carbon, Alloy & Non-Ferrous Materials ASME Sec. VIII Div. 1 & 2, TEMA, HEI, API-660, API-661, ANSI B-78.1, ANSI B-78.2 & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
708	8419.5000	Heat exchangers	Type: U-Tube, Fixed, Floating, Horizontal & Vertical Size: Dish Head (2:1 tori-spherical Ø6m x 30mm thick in CS and 20mm thick in S. Steel. Desing Code/ Standards: ASME Sec. VIII-1-2, 3 TEMA-RCB	--	--	Heavy Mechanical Complex-3 Hattar Road, Taxila

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
709	8419.5000	Heat exchange units, Industrial	For following plants: 1. Ethanol Plant 2. Urea Formaldehyde Plants 3. Cement Industries 4. Sugar Industries 5. Oil Refineries 6. Bio Gas Plants 7. Water treatment Plants 8. Soap & Detergents Plant 9. Food, Drugs and Cosmetics Industries 10. Chipboard and Medium Density Fiber Board Plants 11. Environmental and Effluent Treatment Plant 12. Other process and manufacturing industries In Accordance to ASME Sec VIII Div 1 & 2, TEMA, HEI, HITI Plant, machinery and equipment for Sugar, Fertilizer, Chemical, Petro-Chemical, oil and gas projects & Refinery; a) Cascade and barometric type evaporation units , crystallizer, condenser for sugar remelter, sulphitator, dryer, coolers, air heaters, grates and combination grates ; b) Pressure vessels Cylindrical upto 250 mm & spherical upto 30 mm plate thickness c) Columns (stripper, absorption, distillation, dehydration, d) Reactors e) Tanks, mixers, agitator tanks f) Economizers g) Bulk storage tanks h) Deaeration equipment & de-gassifiers i) Furnaces/fired heater j) Cyclone scrubbers & dust collectors k) Rotary equipment e.g. dryers, coolers, granulators, drum den, calcinator & rotary kilns l) Finishing machines m) Vacuum condensers n) Crystallizer o)	1) Air Cooled Cross Flow Heat Exchangers upto 45 Bars and Tube specifications as 9377 mm length, 2668 mm width & 972 mm height. 2) Shell & Tube Type Pre Condensers upto 1700 mm dia & 6000 mm length. 3) Vertical Condensers upto 2012 mm dia & 6800 mm length. 4) Horizontal Condensers upto 2012 mm dia & 6800 mm length. 5) Shell & Tube type Heat Exchangers upto 1700 mm dia & 5000 mm length. 6) Shell & Tube type evaporators upto 5500 mm dia & 14000 mm length.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
710	8419.5000	Heat exchange units, Industrial ,	Plate Type (Gasketed) Heat Exchanger as per customer requirement and in accordance with ASME codes, of any capacity.	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi
711	8419.5000	Heat exchange units, Industrial	Shell & Tube Type Heat Exchanger as per customer requirement and in accordance with ASME codes, of any capacity & as per customers requirements	--	--	Industrial & Mechanical Engineers 403, Noor Estate Building Shahrah-e-Faisal Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
712	8419.5000	Heat exchange units, Industrial	Plate Type Heat Exchanger (Gasketed)	--	--	NKR Engineering (pvt) Ltd. 304, Anum Classic, 48 Darul Amman Society Opposite Duty Free Shop, Shahra-e-Faisal, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
713	8419.5000	Heat exchange units	a. Type = Shell/ Tube, as per TEMA Standard Pressure Range = 15 PSI to 1500 PSI Temperature Range = -150 to 500F Material used = Carbon Steel, Stainless Steel, Brass and Alloy Minimum Dia = 300mm, Max Dia = 1500mm Minimum Length = 1000mm; Max Length = 10000mm b. Type = Fin Fan/ Air Cooled Cooler Pressure Range = 15 PSI to 1500 PSI Temperature Range = ambient to 600F Material used = Carbon Steel, Stainless Steel, Brass and Alloy Minimum Size = 5000mm; Max Size = 12000mm as per customers requirements	--	--	Petrosin Ravi Industries Ltd. Shahra-i-Pakistan Kala Shah Kakoo G.T Road Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
714	8419.5000	Heat Exchange Units	Heat Exchanger (Shell and tube type, size 300Kg/cm ² pressure Heat Exchanger (Air Cooled Exchanger/FinFan Cooler - Induced/Forced Draft & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
715	8419.5000	Heat Exchangers	Heat Exchanger (Shell and tube type, size 300Kg/cm ² pressure Heat Exchanger (Air Cooled Exchanger/FinFan Cooler - - Induced/Forced Draft & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
716	8419.5000	Shell and Tube Heat Exchangers	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
717	8419.5000	Cooling Box	For Carbonating Tower and for Ammonia Gas Cooler	--	--	Heavy Mechanical Complex Taxila SEFEC Engineering (Pvt) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
718	8419.5000	R22 Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
719	8419.5000	Low Temperature Suction Trap	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
720	8419.5000	Medium Temperature Suction Trap	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
721	8419.5000	Air Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
722	8419.5000	Fuel Gas Ko Drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
723	8419.5000	Flare Ko Drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
724	8419.5000	Teg Vent Gas Knock Out Drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
725	8419.8100	Kettles, steam, Industrial	Pressure Vessels with steam heating helical coils inside and fitted with or without agitator. Diameter upto 5000mm, height 6000mm and wall thickness upto 30mm fabricated of carbon, alloy or stainless steel. ASME Sec. VIII Div. 1 & 2 & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
726	8419.8100	Kettles, steam, Industrial	Capacity Up to 350 TPH, 150 BARG (water tube, fire tube, waste heat recovery boiler, heat recovery steam generator)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
727	8419.8910	Cooling Towers	Cooling Tower Designs: Counterflow and Crossflow Air Flow: Induced and Forced Fills: Film Fill and Splash Fill Type: Industrial and Package Size per Cell: 50 GPM to 5000 GPM	Structure: Stainless Steel, Galvanized Mild Steel, FRP	--	Jalal Engineering B-425, Block 13, F.B. Area, Karachi – 75900 ARCO International 305-307, Poonch House Plaza, Adamjee Road, P.O. Box 1056, Rawalpindi Imtiaz Engineering Services 12, 3rd Floor, Hyder Plaza Main Rashid Minhas Road Gulshan-e-Iqbal, Block-5, Karachi Liang Chi Industry Pakistan (Pvt) Ltd. 304 Anum Classic, 48 Darul Aman Society, Opposite Duty Free Shop, Shara-e-Faisal, Karachi - 75350
728	8419.8990	Kettles for Pharmaceuticals Industry	Pressure Vessels with Limet Coil, Jackets for steam heating & cooling in stainless steel or higher alloys design as per ASME Sec. VIII Divt. 1 & 2 complete with agitator & variable / fixed speed drives & as per customers requirement.			DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
729	8419.8990	De-Ethanizer OH Drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
730	8419.8990	Blow Case Vessel	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
731	8419.8990	Water Degassing Boot	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
732	8419.8990	Expandor Suction Drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
733	8419.8990	Low Temperature Separator	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
734	8419.8990	De-Ethanizer Column	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
735	8419.8990	LPG/NGL Splitter OH Drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
736	8419.8990	Slops Tanks	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
737	8419.8990	Chilled Water Expansion Tank	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
738	8419.8990	Flare Knok out drum	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
739	8419.8990	NGL Flash Vessel	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
740	8419.8990	Thermosyphon Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
741	8419.8990	Condensate Flash Vessel	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
742	8419.8990	Digester & Reactor for Pulp & Paper Plant	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
743	8419.8990	Thermal Oil Boiler System (Hot Oil Boiler)	All types/sizes	--	--	Descon Engineering Ltd. 2-Km Defence Road Off 24th Km, Multan Road, Chung, Lahore The Sitara Engineers Nishatabad, Sheikhpura Road Heavy Mechanical Complex Taxila SEFEC Engineering (Pvt) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
744	8419.8990	Slug Catcher	Finger type, Vessel type & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
745	8419.8990	Complete Ethanol Plants	Low carbon stainless steel, consisting of Distillation Columns, Shell and Tube Type Heat Exchangers, Fermentation tanks, Plant piping, Molasses Storage tanks, Bio Gas reactors and other large and small tanks. We also do complete erecting and installation of these plants. In accordance to ASME/ANSI 31.3, API 650, API 620, CODAP, TEMA type B&C / B.S.S. & as per customers requirements	Each Ethanol plant comprises of the following: 1) 10 nos of Distillation columns with diameter ranges from 300 mm to 2300 mm and length of upto 47000mm. 2) 13 nos of shell and tube type heat exchangers with dia 400 mm to 2450 mm. 3) 22 nos of tanks with dia 2200 mm to 6000 mm. All equipments are made from SS316L and SS304L	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
746	8419.8990	Machines, condensing, for air or gas Industries	Shell & Tube Type of Carbon, Alloy & Stainless Steel. Fixed & Floating Tube sheets with straight & U-Tubes. Air Cooled with Finned Tubes of Carbon, Alloy & Non-Ferrous Materials ASME Sec. VIII, Div 1 & 2, TEMA, HEI, HTI	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
747	8419.8990	Knock Out Drums	--	--		IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
748	8419.8990	Coalescer Vessels	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
749	8419.8990	Columns and Strippers	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
750	8419.8990	Spherical Tank (LPG)	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
751	8419.8990	Seal System Nitrogen Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
752	8419.8990	Instrument Air Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
753	8419.8990	Plant Air Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
754	8419.8990	Nitrogen Receiver	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
755	8419.8990	Steel Vessels and equipment	LPG Tanks - Static (Cylindrical upto 125 Mton capacity, Spherical upto 500 Mton capacity) LPG Bowzers capacity 30 Ton Storage Pressure Vessel (cylindrical/spherical), up to 250 mm plate thick (Columns, Stripper, absorption, distillation, dehydration, Deaeration Equipment & De Gasifiers etc.) & as per customers requirements	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000 DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
756	8419.8990	Pasteurizers, electro-thermic, Industrial	Juice and milk pasteurizers	--	--	NKR Engineering (Pvt) Ltd. 304, Anum Classic, 48 Darul Amman Society Opposite Duty Free Shop, Shahra-e-Faisal, Karachi
757	8419.8990	Crystallizers, sugar refining , Industrial	For upto 6,000 TCD Sugar Plant ASME Sec. VIII, Div. 1 & 2	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
758	8419.8990	Crystallizers, sugar refining , Industrial	Sugar Mill eqpt.of upto 10,000tpd: Cane Carrier, Cane leveler, Cane cutting knives, Cane shredder, Prepared cane elevator, Cane crushing mills, cooling water piping, Inter conveyors, Service platform & gangways MS & SS receiving tanks, imbiniton & juice piping, service hand box only, belt conveyor, Juice Heaters, Bucket elevator, Lime slaker, Flashing vessel, Door type & SRI type clarifier, Vacuum filters, Cascade condenser Mud overflow tank, Mud mixer Cyclone, bagacillo separator and ducting, Bagacillo screen with hopper Evaporators, Condensate receiver, Vacuum pans(batch type), Crystallizers (air cooled & water cooled) Vertical crystallizer, Open seed crystallizer, Vacuum crystallizers, Multi jet condensers, Continuous centrifugals, Feed mixer, Screw conveyor, Sugar remeltor, Magma minglers single/double paddle, Raw sugar remelter, First/ Second carbonation tank tank, Remelt sulphitator, Rotary pressure filter, Aeration tank, Telofloc clarifier, Scum clarifier, hopper conveyor, White sugar dryer, Air heater Dry cyclone, wet cyclone, Sugar Storage bins, Boiler supporting structure, Working platform, Steel casing, Air heater Dumping grates & feeder, Economizer, I.D.F.D. & S.A. fans, Fly ash arrestor, Observation ports, inspection/ access doors, Hoppers, Flue gas ducts,	1) Vertical Crystallizer upto 300 tons weight, 4000 mm diameter and 13000 mm length. 2) Air Cooled Crystallizer upto 3000 mm diameter and 5500 mm length. 3) Vacuum Crystallizer upto 2800 mm diameter and 5000 mm length. 4) Agitators upto 8000 mm diameter and 6500 mm length. 5) Condensers upto 1400 mm diameter and 5600 mm length. 6) Separators upto 1500 mm diameter and 9500 mm length. 7) Filters and screens upto 5000 mm dia and 6000 mm length. 8) Mixers upto 2400 mm dia and 8000 mm length. 9) Pressure Filters and Reactors upto 3000 mm dia and 4000 mm length. 10) Vacuum Filters upto 3000 mm dia and 6000 mm length	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
759	8419.8990 and respective headings	Absorption Tower, Columns, Process Reactors, Heat Exchange, Condensers, Air Coolers, LPG/Oil/LNG Storage Tanks, Heat Recovery Boilers, Steel Structure, Process And Utility Piping, Gas Sweetening Unit, Amine Absorption, Flare Stack System, LPG Recovery Unit, Sulphur Recovery Unit.	-	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
760	8419.8990	Chemical Injection / Dosing Skids such as: • Corrosion Inhibitor Skid • Methanol Injection Skid • Drag Reducing Agent injection skid • Anti-Foam Injection skid • De-Emulsifier Injection skid • Wax Inhibitor Injection skid • Odorizer Injection skid	Pneumatic & Motor Driven, Solar CI Skid 10,000 PSI (g)	Gas Driven, Motor Driven, Solar Powered	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
761	8419.8990	Gas / Fuel Conditioning Skids • Instrument Gas Scrubber Skid • Sour Gas Conditioning Skid • Scrubbers • Filters	Stainless Steel, Carbon Steel, Alloy Steel	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
762	8419.8990 8419.8910	Tanks, fitted with heating or cooling elements,	Atmospheric Tanks from 500 barrels to 380,000 barrels capacity. Large tanks can be of fixed roof, floating roof or dome roof. ASME Sec. VIII, Div. 1 & 2, API-650, API-620, API-12B, API-12D, API-12F	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
763	8419.8990 8418.6990	Evaporators	For sugar mills Up to 1250 Tons per hours	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpura, G.T. Road Gujranwala
764	8419.9990	Cooling & Heating Coils used in Refrigerators	Custom Made	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad Coolpoint (Pvt) Ltd Adda Plot, Sharaiz Avenue jatti Umra Road, 'Raiwind Road, Lahore □

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
765	8421.2100	Pressure Sand Filter, Multi Media Filter, (Automatic/Manual Operation) Cartridge Filters	Filtration Media Sand, Gravel, Anthracite (all capacities for all industrial sectors)	--	--	<p>Water Engineering & Management Services 19-N, Model Town Extension, Lahore</p> <p>Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700</p> <p>B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad</p> <p>FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi</p> <p>Aqua Regia House No. 33, G-4 Johar Town Lahore</p> <p>Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore</p>
766	8421.2100	Activated Carbon Filter (Automatic/Manual Operation)	Filtration Media Granular or Powderd Activated Carbon (all capacities for all industrial sectors)	--	--	<p>Water Engineering & Management Services 19-N, Model Town Extension, Lahore</p> <p>Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700</p> <p>B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad</p> <p>FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi</p> <p>Aqua Regia House No. 33, G-4 Johar Town Lahore</p> <p>Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
767	8421.2100	Iron Removal Filters (Automatic / Manual Operation)	Filtration Media Birm, Filter Ag and Manganese Green (all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore
768	8421.2100	Water Softener Plants (Automatic & Manual Operation)	Filling Media Cation Exchange Resin (all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
769	8421.2100	Demineralized/ De-ionization Plant [Continuous Electro de Ionization (CEDI) and Electro De Ionization (EDI)] comprising of cation exchange column, Anion Exchange column, De-alkalizer , Degassifier, De carbonation column & Mix Bed Polisher column. (Automatic & Manual Operation)	Strong, Weak Cation & anion Exchange Resin including Mixed Bed Grade (all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore
770	8421.2100	Automatic WFI / Distilled Water Plant	(all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
771	8421.2100	Reverse Osmosis (RO) / Desalination Plants	Removal of ions / salts through Reverse Osmosis Membranes. (all capacities for all industrial sectors)	--	--	<p>Water Engineering & Management Services 19-N, Model Town Extension, Lahore</p> <p>Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700</p> <p>B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad</p> <p>FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi</p> <p>Aqua Regia House No. 33, G-4 Johar Town Lahore</p> <p>Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore</p>
772	8421.2100	Ultra Filtration (UF) Plants	Removal of Suspended Solids through Ultra Filtration Membranes (all capacities for all industrial sectors)	--	--	<p>Water Engineering & Management Services 19-N, Model Town Extension, Lahore</p> <p>Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700</p> <p>B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad</p> <p>FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi</p> <p>Aqua Regia House No. 33, G-4 Johar Town Lahore</p> <p>Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
773	8421.2100	Nano Filtration (NF) Plants	Removal of Selective ion through Nano Filtration Membranes (all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore
774	8421.2100	Industrial Wastewater / Effluent Treatment Plant	Biological System (Aerobic/Anaerobic), Membrane Bio Reactor (MBR), Dissolved Air Floatation (DAF) Unit, (all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
775	8421.2100	Sewage Treatment Plant	Biological System (Aerobic/Anaerobic) (all capacities for all industrial sectors)	--	--	Water Engineering & Management Services 19-N, Model Town Extension, Lahore Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700 B. H Industries (Pvt) Ltd. 05-Chenab Market Madina Town Faisalabad FD & C (Pvt) Ltd. F -116, S.I.T.E. Karachi Aqua Regia House No. 33, G-4 Johar Town Lahore Faiz Enterprises 3/II, Shadman Plaza Shadman Market Lahore
776	8421.2900	Dearator Feed Tank Vessel	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
777	8421.2900	Filters for oil refineries	As per fabrication drawings and Client's requirement.	Sand Filters for Oil Refineries. Inner dia 1980mm x 2930mm length. All water collection and Air distribution system is made of SS-304 material	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700 Fluid Technology International 424, 4th Floor, Bhayani Centre, Block M, North Nazimabad, Karachi-74700
778	8421.2900	Air Filters / Oil Filters	Air Filters for Power Generation and Customized Industrial application other than automotive (All Types and Sizes)	--	--	Malik Auto and Agricultural Ind. (Pvt) Ltd. 80-Badami Bagh, P.O. Box 465 Lahore Qaim Automotive Mfg. (Pvt) Ltd. 203-206, Prince Centre, Preedy Street Saddar, Karachi-74400 Skyways Manufacturers (Pvt) Ltd. A/1-A-3, SITE Karachi Essa Engineering Industries (Pvt) Ltd. S-19/A, a Allana Road, S.I.T.E. Karachi
779	8421.2900	Clarifiers	36' x 18' (upto 141000 Gallons) Dorr Olive, SRI, FCB Type	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
780	8421.3940	Air Filters	Other than automotive (All Types and Sizes)	--	--	Malik Auto and Agricultural Ind. (Pvt) Ltd. 80-Badami Bagh, P.O. Box 465 Lahore Qaim Automotive Mfg. (Pvt) Ltd. 203-206, Prince Centre, Preedy Street Saddar, Karachi-74400 Skyways Manufacturers (Pvt) Ltd. A/1-A-3, SITE Karachi
781	8421.3950	Bag Filters	Other than automotive Used for air filtration as substitute of cartage air filter and also used for removal of dry and wet smokes for cleaning the air or controlling the pollution as part of national environmental quality standards. (All Types and Sizes)	Usages: Gas turbines, generators, (air intake for circulation) cement, Coal power stations for controlling the emissions for environmental controls, dust collectors, vacuum cleaners and for all the machines which are producing fumes, unwanted vapors which act as air cleaner for operation as creating suction or for purpose of environment standard compliance. Bag filters are also used for liquid filtration in which case the filter media is for filtration of liquid and with the change of filter media the character of bag filtration can be changed.	--	Malik Auto and Agricultural Ind. (Pvt) Ltd. 80-Badami Bagh, P.O. Box 465 Lahore Qaim Automotive Mfg. (Pvt) Ltd. 203-206, Prince Centre, Preedy Street Saddar, Karachi-74400 Skyways Manufacturers (Pvt) Ltd. A/1-A-3, SITE Karachi
782	8421.3990	Incinerators	For Oil and Gas/Refinery and Industrial units		-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
783	8421.3990	Gas Filter Separators	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
784	8421.3990	Three Phase Separators	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
785	8421.3990	Two Phase Separators	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
786	8421.3990	Instrument Gas Scrubbers	--	--	--	IKAN Engineering Services (Pvt) Ltd. 34-Km, Shamki Bhattian, Multan Road, Lahore DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
787	8421.3990	Filters, vacuum	Having diameters of 3500mm and length of 6000mm ASME Sec. VIII, Div. 1 & 2	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
788	8421.3990	Filters, vacuum	For Sugar mills and other allied Industries .In accordance to ASME sec VIII Div 1 & 2.	1) Vacum Filters upto 60 M ² area, 3000 mm diameter and 6000 mm height	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
789	8421.3990	Plate and frame type filter	36' x 36' (upto 650' filtering) For Ceramic & Sugar Industry	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala
790	8421.3990	Vacuum Filter	13' x 32' - 1310 filtering area Rotary Filter type	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala
791	8421.3990	Pressure Filter	As per Sugar Industry Specifications and other as per client design	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala
792	8421.3990	Filters, Air	Other than automotive (All Types and Sizes)	--	--	Malik Auto and Agricultural Ind. (Pvt) Ltd. 80-Badami Bagh, P.O. Box 465 Lahore Qaim Automotive Mfg. (Pvt) Ltd. 203-206, Prince Centre, Preeedy Street Saddar, Karachi-74400 Skyways Manufacturers (Pvt) Ltd. A/1-A-3, SITE, Karachi
793	8421.3990	Gas Filter Separator System	Dia 8", 12", 18", 24" and 30" with optional instruments like level gauges, pressure gauges, level controller, control valve pressure regulator etc. Equipment to be complete with quick opening end enclosure, filter elements and mist eliminator	Design Pressure 1400 psig; Temp. 130°F, Flow ASME "U", Stamp coded to Section VIII Div. I. Flow Range from 1 mmscfd to 150 mmscfd.	Standard	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
794	8421.3990	2 and 3 Phase Separators (Test & Production)	60 MMSCFD	Mobile Test Separators	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
795	8421.3990	Deodorizer Vessel	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
796	8421.3990	Guel Gas Scrubber	as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
797	8421.3990	Vertical Scrubber	Capacity. Flow 450 mmscfd	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
798	8422.3000	Liquid / Solid & Bulk Packaging Machines	<u>Liquid Packaging Machines</u> Output: 1000 to 2700 pouches per hour Capacity : 5ml to 5000ml Weight: 200 to 550 kg Dimensions: L: 600~872 mm x W: 355~830 mm x H: 1795~3000 mm <u>Solid Packaging Machines</u> Output: 18 to 45 pouches per min Capacity: 5 grams to 2000 grams Weight: 575 to 600 Kgs Dimensions: L:1110~1160 mm x W: 830~1700 mm x H: 2080~2750 mm <u>Bulk Packaging Machines</u> Metering Mode: Weighing (Net weight form) Output: 6~9 bag per min Capacity: 05~50 Kg (20~100 kg for oversized ones) Weight: 800 kgs, Weight accuracy: 0.2% Dimensions: 3700 (variable depending on the conveyor) x 1600 x 3100 mm	Pouch Type: pillow/standing shape, center/side/sachet 3 side, 4 side seal with or without photocell or continuous /centralized design Options: Strip applicator, date coding system, English folding system, feeding conveyor, conveyor, thermic sealing system. Packaging Materials: PE, BOPP, PP, nylon, laminate, cotton, jute, paper aluminum foil etc. Water:100 Ltr/hr, 2° C > 10°, P 2 bar Air : 800 Ltr / min, P 6 bar Power : 220/380 V, 1 phase & 3 phase, 50 Hz, 2~7 KW	--	Salam Enterprises (Pvt) Ltd. Plot No. 20 Rasheed Industrial Estate, 18 KM Feroze Pur Road, Lahore
799	8422.3000	Machines, filling, for bottles, cans,	Variable specifications as per requirements for Juice, Water Treatment, Cosmetics and liquid Food processing.	--	--	Al-Qarni Flow Tech International 9/34 Civic Centre New Garden Town, Lahore
800	8424.1000	Fire Extinguishers	<u>Fire Extinguishers of AFFF Type</u> Size: 10 litres (portable); 45 and 150 litres (Trolley mounted); 1000 litres (trailer mounted) <u>Dry Powder Type</u> Size: 1 to 12 Kg (portable); 20 to 100 Kgs (trolley mounted); 250, 500, 1000kgs (trailer mounted) <u>Halotron-1 Type</u> Size: 1 to 12 Kg (portable); 20 to 100 Kgs (trolley mounted); 250, 500kgs (trailer mounted) <u>Water type</u> Size: 10 litres (portable); 45 & 150 litres (trolley mounted)	--	--	Haseen Habib Corporation [Pvt] Limited 123/3 Quaid e Azam Industrial Estate Lahore
801	8426.1110	Cranes	Type: Electrical Over Head Cranes Size: 150 Tons Desing Code/ Standards: FEM, CMAA.	--	--	Heavy Mechanical Complex-3 Hattar Road, Taxila
802	8426.1110	Overhead travelling cranes	Overhead travelling cranes 0.5 tons to 300 tons	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
803	8426.1990	Grantry Cranes	0.5 tons to 250 tons.	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila Heavy Mechanical Complex-3 Hattar Road, Taxila
804	8426.3000	Jib Cranes	Size: 3 Ton	--	--	Heavy Mechanical Complex-3 Hattar Road, Taxila
805	8426.3000	Jib Cranes	Jib cranes upto 5 tons and monorail cranes upto 10 tons	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
806	8426.4100	Catering High Loader	Upto 22ft working height from ground suitable for aircraft upto Boeing 777	--	--	Bilal Engineering Company G.T Road Opp. Rescue 1122 Office Pindi Bypass, Gujranwala

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
807	8426.9100	Cranes, designed for mounting on road vehicles	Lift Capacity: 800, 1000, 1500, 2000, 2500 and 3000 kgs. Can be Mounted on any available local truck chassis.	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
808	8426.9900	Cableways / Cable trays	Ladder Type & Perforated Type (size 100mm ~ 700mm wide)	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
809	8427.2010	Forklift Truck	Upto 3 tons lifting capacity	--	--	Millat Tractors, Ltd. Sheikhupura Road, Shahdara Lahore
810	8428.3100	Conveyors, continuous-action, for goods or materials (Specially designed for underground use)	Width = 1,000 mm Length = 100 Meters BS-6318 & as per customers requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
811	8428.3200	Bucket Elevators	Bucket capacity = 0.3 cubic meters Height = 30 Meters BS-6318	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
812	8428.3300	Belt Conveyors	Width = 1,000 mm Length = 100 Meters BS-6318	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
813	8428.3910	Conveyors (for Cement plants)	Width = 1,000 mm Length = 100 Meters BS-2890 & as per customer requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
814	8428.3990	Conveyors	Width = 1,000 mm Length = 100 Meters BS-2890 & as per customer requirements	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
815	8429.2000	Graders	50 Tons per hours	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala
816	8429.4000	Static Road Rollers	Static Road Rollers 10 to 12 tons Upto 55 HP	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
817	8429.5100	Loaders, shovel, front-end, mechanical, self-propelled	1 - 3 cub meter bucket handler tractor front end loader for Industrial and Agricultural work.	[Bucket Attachment of the Tractor used on the front Side of Tractor for the Uplifting of Garbage or Construction Disposables.]	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
818	8431.4900	Blades for Tractors	Dozing Blades for different hp of Tractors; Width: 6ft, 7ft, 8ft	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
819	8431.4300 8430.4100 8430.4900	Drilling Equipment and Drill Collars	<p>(I) <u>Rotary Drilling Equipment and Threaded Connections including:</u></p> <p>i) Stabilizers</p> <p>ii) Drill Collars</p> <p>iii) Heavy Weight Drill Pipes (excluding friction welded drill pipes) i</p> <p>v) Drill String Subs</p> <p>v) Bit Subs</p> <p>vi) Kelly and Kelly Saver Subs (square and hexagonal)</p> <p>f) Casing pup joints and X-overs,</p> <p>i) Casing pup joints</p> <p>ii) Tubing pup joints</p> <p>iii) Casing X-Over</p> <p>iv) Tubing X-over</p> <p>g) Re-threading</p> <p>i) Threading on tubing</p> <p>ii) Threading on Casing Pipe</p> <p>Excluding finished threaded casing and tubing for oil and gas wells.</p> <p>h) Mud tanks for drilling rigs, mud hoppers, mud agitators, mud guns</p> <p>i) Seismic drilling rigs;</p> <p>- Man portable type</p>	<p>Made from 4140H forged steel or special steel, as per API 7 Specs.</p> <p>Upto 36"</p> <p>4-1/2" to 9-1/2"</p> <p>Upto 31 ft</p> <p>Upto 5.1/2"</p> <p>i) <u>Following API Threads & Connections:</u></p> <p>- BTC, EUE, 8 Round, 10 Round</p> <p>ii) <u>Following Premium Threads & Connections</u></p> <p>- RTS</p> <p>i) <u>Following API Threads & Connections:</u></p> <p>- BTC, EUE, 8 Round, 10 Round</p> <p>ii) <u>Following Premium Threads & Connections</u></p> <p>- RTS</p> <p>100 to 500 ft. Mountable on Off Road buggies/ Trucks</p> <p>100 to 500 ft. Mountable on Off Road buggies/ Trucks</p>	NACE	ADOS Pakistan Limited H.No. 88, Main Margalla Road, F-8/2, Khayaban-e-Iqbal Islamabad
820	8432.1010	Chisel ploughs, for agricultural Machines	Ploughs for 2,3,4,5 Discs. Reversible and Standard with tubular frame. With 2 Discs: 42" With 3 Discs: 63" With 4 Discs: 84" With 5 Discs: 105"	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
821	8432.1090	Ploughs, for agricultural Machines	Ploughs for 2,3,4,5 Discs. Reversible and Standard with tubular frame. With 2 Discs: 42" With 3 Discs: 63" With 4 Discs: 84" With 5 Discs: 105"	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
822	8432.2100	Harrows, disc, for agricultural Machines	14, 16, 18, 22 and more discs with hydraulic attachments With 14 Discs: Front 70" & Rear 65" With 16 Discs: Front 78" & Rear 70" With 18 Discs: Front 86" & Rear 78" With 22 Discs: Front 102" & Rear 94"	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
823	8432.2910	Cultivators, for agricultural Machines	5, 9, 11, 14, 19 tines with ront and fixed frame. Have an options with Tyres assembly and Hydraulic Functions With 5 Tines: 66" With 9 Tines: 86" With 11 Tines: 96" With 13 Tines: 106" With 19 Tines: 146"	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
824	8432.4000	Spreaders, manure	200lit fertilizer spreaders tractor mounted, and pto operated.	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
825	8432.8090	Machines, stone-removing, agricultural	Laser Land Leveling system consisting of: 1. Rotary laser transmitter 2. 360 degree laser receiver 3. Control Box 4. Bottomless bucket hydraulic scraper	Minimum 300 meter radius operating range Within one millimeter per 20 meter level accuracy 0 to 50 degree Celsius operating temperature Moisture and dust proof Mil.Spec. C-5015 electrical connectors	--	Pakistan Atomic Energy Commission Applied Physics Division PINSTECH Nilore, Islamabad
826	8432.9000	Mouldboards for plough	2,3,4 furrows with Hydraulically Revisable and One-way Simple fabrication. For 2 Furrow: 32" For 3 Furrow: 60" For 4 Furrow: 88"	--	--	Agripak International A - 263 Block - C, North Nazimabad, Karachi
827	8438.3010	Sugar plants	Complete Sugar plants upto 12000 TCD	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
828	8438.3010	Sugar Plant / Equipment	As per requirement	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
829	8438.3090	Diffusing apparatus for sugar extraction,	For upto 6,000 TCD Sugar Plant API 650, API 620, ASME Sec. VIII Div. 1	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
830	8438.3090	Extracting Equipment	Equipment for extraction in sugar industry: Cane Carrier. Cane leveler. Cane cutting knives. Cane shredder Prepared cane elevator Cane crushing mills Mill cooling water piping. Inter conveyors Service platform & gangways Receiving tanks made of mild steel & stainless	1) High extraction can crushing rollers with hydraulic arrangement and feed rollers. 2) De- Pithers. 3) Cane Shredders upto 8000 TCD. 4) Cane Cutters upto 5060 mm wide. 5) Centrifugal machines. 6) Chip Board forming machines. 7) Brequetting Presses. 8) Rotary Bagasse Feeders for Boilers. 9) Cane Levellers. 10) Lime Slackers.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
831	8438.3090	Diffusing apparatus for sugar extraction,	As per fabrication drawings and Client's requirement. In accordance to API 650, API 620, ASME Sec VIII Div 1	1) High extraction can crushing rollers with hydraulic arrangement and feed rollers. 2) De- Pithers. 3) Cane Shredders upto 8000 TCD. 4) Cane Cutters upto 5060 mm wide. 5) Centrifugal machines. 6) Chip Board forming machines. 7) Brequetting Presses. 8) Rotary Bagasse Feeders for Boilers. 9) Cane Levellers. 10) Lime Slackers.	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
832	8438.8090	Machines, cutting and rolling, for tea	As per fabrication drawings and Client's requirement.	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
833	8438.8090	Agitator for sugar plants	Up to 40 Feet dia As per Sugar Mills Client Specification	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
834	8445.4010	Weft Pirn Winder	Horizontal Type used for filling of bobbins for weaving process. Machine stops automatically after completion of Bobbins. The capacity is from 12 spindles to 48 Spindles.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
835	8445.4010	Weft Pirn Winder	Vertical Type used for filling of bobbins for weaving process. Machine stops automatically after completion of Bobbins. The capacity is from 12 spindles to 48 Spindles.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
836	8445.4020	Cone Winders.	For the rewinding of cones in weaving mills. Machine stops automatically after completion of Process. The capacity is from 06 spindles to 48 Spindles.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
837	8445.4090	Sectional Warping Machines	from 72" to 210" widths. For the filling of warp beams for all kind of looms. Mechanical machines equipped with Auto electric warp stop motion, variable motor system. Creel capacity as per requirement.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
838	8446.2100	Terry Towel Drop Box Shuttle loom.	Shuttle power loom for the Weaving of Export Quality Terry Towel products. Loom width ranging from 64" to 105".	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
839	8446.2100	Automatic Cop Change Shuttle Loom	For weaving of Towel and Fabric. For fabric: width of loom from 44" to 126". For Towel: width of loom, from 64" to 105". The ejection of empty bobbin from shuttle and insertion of filled bobbin from magazine to shuttle is automatic.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
840	8446.2100	Grey Cloth Plain Shuttle Loom.	From 44" to 120" width Grey Cloth Plain Shuttle Looms used for the weaving of fabric.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
841	8446.3000	Terry Towel Rapier Loom.	With Provision of Manual and electronic Jacquard , Paper and Electronic dobby. Width of looms from 76" to 110". Shuttle less technology used for the weaving of terry towel products. Paper and Electronic dobby can be used on the loom. Up to 18 Nos frames can be operated. 4 Clours, clour selector is installed. The manual and electronic Jacquard can also be fitted on these looms.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
842	8446.3000	Grey Cloth Rapier Looms.	With Provision of Manual and electronic Jacquard, Paper and Electronic dobby. Grey Cloth Rapier loom. Width of looms from 56" to 134". Shuttless technology used for the weaving of fabric. Electronic and manual Jacquards are used on these looms. The Paper and Electronic dobby can also be installed.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.
843	8448.1100	Dobbies for looms	Mechanical, used for the designing of different kind of Towel and fabric, and also used for the brand name writing on the edge of fabric. Range, from 8 lever to 22 levers, 1 cylinder to 4 cylinders in heavy and light duty.	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhupura Road, Faisalabad.

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
844	8448.4210	Reeds for looms	i) <u>Profile / Terry Reeds</u> Density: 3.0 d/cm to 40 d/cm, M/c width: 150 cm to 390 cm ii) <u>Flat Reeds.</u> Density: 3.0 d/cm to 40 d/cm, M/c width: 150 cm to 390 cm	i) Highest quality Stainless Steel ii) Highest quality Carbon/ Stainless Steel	i) Stainless Steel: 90% aluminum: 5% Misc: 5% ii) Carbon Stainless Steel: 90% aluminum: 5% Misc: 5%	Textile Technics (Pvt.) Ltd. 6th Floor EFU House, Gulberg Road, Lahore
845	8448.4210	Reeds for looms	Tunnel Reeds for Air Jet looms Flat reeds for Water Jet, Rapier, Projectile, Shuttless and Shuttle looms. Double / towel looms Circular reeds Sizing reeds Knotting reeds (All sizes and counts)	All are synthetic bound, soldered and pitch bound bindings.	--	Abid Industries E-43, SITE Karachi – 75700
846	8448.4290	Heald-frames for textile weaving Machines	Heald Frames for shuttless looms in all sizes	--	--	Abid Industries E-43, SITE Karachi – 75700
847	8448.4990	Beams and Emry Rolls	Forall types of looms and weaving machines	--	--	Talib Brothers Engineering Works P-290, Sant Singh Road, Opposite Javed Weighing Scale, Sheikhpura Road, Faislabad.
848	8450.1200 8450.1900	Washing machines	Voltage: 220V AC, Net Weight Kgs: 19.60, Gross Weight Kgs: 24.00, General Operation Duration: 1-15 minutes, Frequency: 50/60 HZ, Input: 220 Volts/ 175 watts, Capacity of wash tub: 85 litres	--	--	Wahid Industries Ltd. G. T. Road, Gujrat
849	8450.1200	Washing machines	With built-in centrifugal dryer	--	--	Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi.
850	8450.1900	Washing machines	Single Tub Washer	--	--	Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi.
851	8458.1100	CNC Lathes, horizontal, numerically controlled	Desktop CNC Lathe with X=145, Z=225, with CNC Control Center distance 270mm, for Educational & Training Institutes	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
852	8458.1100	CNC Milling Machine numerically controlled	Desktop CNC Milling Machine with X=240, Y=170, Z=220, CNC Control, Table 500x160. for Educational & Training Institutes			Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
853	8458.1100	CNC Turning Centre numerically controlled	CNC Control, and Tool Turret. with X=190, Z=400, Swing 380mm Center distance 450mm, for mass production			Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
854	8458.1100	CNC Lathe numerically controlled	CNC Control, and Tool Turret. with X=150, Z=600, Swing 365mm Center distance 700mm, for Production and Educational purpose			Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
855	8458.1900	Lathes, horizontal, Precision type with and without DRO	Precision Centre Lathe Centre distance upto 1500 mm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
856	8459.2910	Machine-tools, Drilling by removing metal, not numerically Controlled	Universal Drilling Machine with Drilling capacity upto 32mm & boring capacity upto 65 mm in Cast Iron	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
857	8459.2910	Machine-tools, Drilling by removing metal, not numerically controled	Pillar Drilling Machine with Drill Capacity upto 20 mm in Steel	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
858	8459.3100	Machine-tools, boring Milling by removing metal, (Numerically Controlled)	Modular boring Heads, 02 ways & 4 ways configuration. Drilling Capacity 32 mm in Cast Iron & 25mm In steel.	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
859	8459.3910	Machine-tools, boring by removing metal	Vertical Copy Milling, Drilling boring Machine Drill Dia 25 mm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
860	8459.5100	Machine-tools, Milling by removing metal, numerically controled	Desktop PC Based for Educational & Training Institutes Milling Machine, Knee Type Numerically Controlled	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
861	8459.5910	Machine-tools, Milling by removing metal, knee-type,	Knee Type Milling Machine Horizontal, Vertical & Universal Version with long Traverse upto 810 mm and table size upto 1300x300 mm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
862	8459.6910	Machine-tools, Milling by removing metal, not numerically controled	Turret Milling Machine (Bridge Port Type) Travels long. 750, Cross 300, Vert. 400 mm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
863	8459.6920	Machine-tools, Milling by removing metal, not numerically controled	Universal Engraving Machine Clamp Area 500x200 mm Pantograph ratio 1:1 to 1:50	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
864	8465.9110	Machine-tools, sawing, for working wood/ cork/ hard rubber	Blade Length not exceeding 45.7 cm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
865	8474.1010	Cement Plant/ equipment	7200 Tons/ day	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
866	8474.1010	Machines, screening, for earth, stone,	For Cement Plants of upto 3500 TONS/DAY AISI	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
867	8474.1010	Machines, screening, for earth, stone,	For Cement Plants of upto 3500 TONS/DAY AISI	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
868	8474.1020	Machines, screening, for earth, stone,	For Cement Plants of upto 3500 TONS/DAY AISI	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
869	8474.2010	Machines, grinding / crushing, for earth, stones,	For Cement Plants of upto 3500 TONS/DAY AISI	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
870	8474.2010	Machines, crushing, for earth, stone,	As per fabrication drawings and Client's requirement.	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
871	8474.2010	Machines, grinding / crushing, for earth, stones,	For Cement Plants of upto 3500 TONS/DAY AISI	--	--	SEFEC Engineering (Pvt.) Ltd. 44-C, First Floor, 11th Jami Commercial Street, Phase-VII, Defence Housing Authority, Karachi
872	8474.2090	Machines, crushing, for earth, stone,	As per fabrication drawings and Client's requirement.	--	--	A.B.S Engineering Corporation (Pvt) Ltd. F-492, S.I.T.E, Karachi- 75700
873	8474.8090	Machines, agglomerating, for mineral products	Two three phase separators, absorption tower columns wall thickness upto 120 mm, process reactors wall thickness up to 120 mm , pressure vessels based on ASME codes, tubular heat exchangers tema standards, tubular condensers TEMA standards, plain / fin tube air collar , LPG storage tanks base on ASME codes , Oil storage tanks base on API codes , Heat recovery boilers, steel structures, process & utilities piping off ,site utilities, Gas sweetening unit ,Amine absorption unit ,Gas dehydration unit, Glycol dehydration plant, Flare Stack system, LPG recovery unit, Sulphur recovery unit.	--	--	Petrosin Ravi Industries Ltd. Shahra-i-Pakistan Kala Shah Kakoo G.T Road Lahore Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
874	8474.9020	Parts of Cement plant	Cement plant upto 4000 TPD	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
875	8479.6000	Room Air Coolers	Power source: 220 CV/230V, 50 Hz, Fan Speed: High 1350 RPM, Low 1150 RPM, Water Tank Capacity: 60 litres, Net weight: 45.50 Kg, Gross wieght: 49.50 Kg	--	--	Wahid Industries Ltd. G. T. Road, Gujrat
876	8479.8290	Pharmaceutical Machines	Mixer/ Blenders Capacity upto 5.0 tons/ hr	--	--	FD & C Equipment (Pvt) Ltd. F-116.S.I.T.E., Karachi-75730
877	8479.8990	Dehumidifiers	De-humidifying capacity: (50L/day to 120L/day)	--	--	Sabro Technologies (Pvt) Ltd. Plot No. 270, Industrial Triangle Kahuta Road Islamabad
878	8479.8990	2 and 3 Phase Separators (Test & Production)	60 MMSCFD & as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore
879	8479.8990 8422.4000	Pharmaceutical Machines	Cream Ointment & Paste Processing and packaging machines Capacity upto 1500 Kg/Hr	--	--	FD & C Equipment (Pvt) Ltd. F-116.S.I.T.E., Karachi-75730
880	8479.8990/ 8479.8290	Gas / Fuel Conditioning Skids . Instrument Gas Scrubber Skid . Sour Gas Conditioning Skid . Scrubbers . Filters	Stainless Steel, Carbon Steel, Alloy Steel & as per customer requirements	--	--	DDFC (Pvt.) Ltd. 27 KM, Multan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
881	8479.8990	Pharmaceutical Machines	Tablet Processing Machines (i) Wet Granulator and Kneader Capacity upto 1 ton/ batch (ii) Dryer Capacity upto 1 ton/ batch (iii) Milling and wet/ dry sizer Capacity upto 800 Kg/hr (iv) Sifter and Sever Capacity upto 500 Kg/Hr	--	--	FD & C Equipment (Pvt) Ltd. F-116.S.I.T.E., Karachi-75730
882	8479.9090	Vacuum Pans for sugar mills	120 Tons Strike Cap. For Sugar Mills	--	--	The Star Mughal Industries (Pvt) Ltd. Sharifpuraa, G.T. Road Gujranwala
883	8481.3000	Check Valves	Cast Steel Check Valves Flanged 2" to 18" (excluding valves complying with valid API 6D ans NACE compliance)	As per API - 600	ASTM-A 216 WCB	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
884	8481.3000	Check Valves	B.S. 5153; upto 24" dia (excluding valves complying with valid API 6D ans NACE compliance)	Cast Iron	Grade 14 Mechanite Type GD	Ghulam Mohi-ud-Din & Sons, 6 Rehman Gali, Railway Road, Lahore
885	8481.3000	Check Valves	ANSI B 16.5; upto 24" dia (excluding valves complying with valid API 6D ans NACE compliance)	Cast Steel/ Carbon Steel	A216 GrWCB	Ghulam Mohi-ud-Din & Sons, 6 Rehman Gali, Railway Road, Lahore
886	8481.3000	Non Return Valves also known as Check Valves.	(a) Swing Type: Sizes: 1-1/2" to 24" Standard: BS 5153 & BS 4090 & BS 12334. JIS 10K, JIS 16K, Class 125 & Class 150 (b) Wafer Type: Sizes: 1-1/2" to 24" Standards: BS 5155 & BS 593, JIS 10K, JIS 16K (c) Lift Check Valve (Spring Loaded): Sizes: 1-1/2" to 24" Standards: DIN 3230 & EN 558, JIS 10K, JIS 16K (Excluding of API, ANSI, & NACE Certification)	Pressure rating: PN-10 & PN-16, PN-25 & Class 125 & Class 150 Temp. rating: Upto 200°C Upto 350°C Pressure rating: PN-10 & PN-16 Temp. rating: Upto 200°C Upto 350°C Pressure rating: PN-10, PN-16, PN-25 Temp. rating: Upto 200°C Upto 350°C	Cast Iron GG25, Ductile Iron EN-JS-1050, Nodular Iron GGG40.3	SAFCO (Scon Valves) 1st Floor, Asif Chambers 14-A, Davis Road, Lahore
887	8481.4000	Air Relief Valves	Kinetic: upto 24" dia (Excluding valves with NACE compliance, Alloy Steel and with valid API 6A & 6D certification except those under PCT 7306.1000)	Cast Iron	Grade 14 Mechanite Type GD	Ghulam Mohi-ud-Din & Sons, 6 Rehman Gali, Railway Road, Lahore
888	8481.8090	Gate Valves/ Sluice Valves	B.S.S. 5163, 5150, 3464, 1218, AWWA C-500; upto 24" dia [Excluding Critical Downhole valves with NACE compliance, Alloy Steel and with valid API 6A & 6D certification except those under PCT 7306.1000]	Cast Iron	Grade 14 Mechanite Type GD	Ghulam Mohi-ud-Din & Sons, 6 Rehman Gali, Railway Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
889	8481.8090	Gate Valves	ANSI B 16.5; upto 24 " dia [Excluding valves with NACE compliance, Alloy Steel and with valid API 6A & 6D certification except those under PCT 7306.1000]	Cast Steel/ Carbon Steel	A216 GrWCB	Ghulam Mohi-ud-Din & Sons, 6 Rehman Gali, Railway Road, Lahore
890	8481.8090	Gate Valves	Cast Steel Gate Valves Flanged OS & Y Type Solid Wedge. 2" to 18" (excluding valves with NACE compliance)	As per API - 600	ASTM-A 216 WCB	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
891	8481.8090	Globe Valves	Cast Steel Globe Valves Flanged 2" to 14" (excluding valves complying with NACE)	--	ASTM-A 216 WCB	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
892	8481.8090	Gate Valve,	PN 1.6, DN 50, 65, 80, 100, 125, 150, 250, PN 10, DN 50, 100, 150, 250, 300, PN 2.5, DN 20, 25, 50, 65, 80, 100, 200, 250 PN 4.0, DN 50, 80, 100, 125, 150	--	--	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore ADOS Pakistan Limited H.No. 88, Main Margalla Road, F-8/2, Khayaban-e-Iqbal Islamabad
893	8481.8090	Ball Valves	Flanged, 16P-DN25, DN50, DN80, DN100, DN150, Material : CF8, Operation type: Manual/Gear Flanged, 16P-DN80, Body: CF8, Lining: structural ceramics, Operation type: Manual	--	--	ADOS Pakistan Limited H.No. 88, Main Margalla Road, F-8/2, Khayaban-e-Iqbal Islamabad
894	8481.8090	C.I. Gate Valves	Cast Iron Gate Valves Flanged 2" to 20"	--	Grey Cast Iron	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
895	8481.8090	C.I. Globe Valves	Cast Iron Globe Valves Flanged 2" to 14"	--	Grey Cast Iron	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
896	8481.8090	C.I. Check Valves	Cast Iron Check Valves Flanged 2" to 16"	--	Grey Cast Iron	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
897	8481.8090	C.I. Rubber Diaphragm Valves	Cast Iron Rubber Diaphragm Valves 2" to 10"	--	Grey Cast Iron	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
898	8481.8090	Gate Valve, Rising Stem (OS&Y) & Non Rising Stem also known as SLUCE Valve.	Sizes: 2" to 24" Standards: BS 5150 & EN 1171, Class 125, JIS 10K, JIS 16K, Class 150 & DIN 3352-1 (PN10) (Excluding of API, ANSI, & NACE Certification)	Pressure rating: PN-10 & PN-16 , PN-25 & Class 125 & Class 150 Temp. rating: Upto 200°C Upto 350°C	Cast Iron GG25, Ductile Iron EN-JS-1050, Nodular Iron GGG40.3	SAFCO (Scon Valves) 1st Floor, Asif Chambers 14-A, Davis Road, Lahore
899	8481.8090	Globe Valve, also known as Steam Valve.	Sizes: 1/2" to 24" Standards: DIN 3230 & EN 558 & JIS 10K, JIS 16K, Class 150 & Class 125 (Excluding of API, ANSI, & NACE Certification)	Pressure rating: PN-16, PN25 & Class 125 & Class 150 Temp. rating: Upto 200°C Upto 350°C	Cast Iron GG25, Ductile Iron EN-JS-1050, Nodular Iron GGG40.3	SAFCO (Scon Valves) 1st Floor, Asif Chambers 14-A, Davis Road, Lahore
900	8481.8090	Strainer Valve also known as (Filter).	Sizes: 2" to 24" (Excluding of API, ANSI, & NACE Certification)	Pressure rating: PN-16, PN-25 Temp. rating: Upto 200°C Upto 350°C	Cast Iron GG25, Ductile Iron EN-JS-1050, Nodular Iron GGG40.3	SAFCO (Scon Valves) 1st Floor, Asif Chambers 14-A, Davis Road, Lahore
901	8481.8090	Double Regulating Valve also known as Balancing Valve & Combination Flow Regulating Valve & Circuit Setter Valve	Sizes: 2-1/2" to 12" Standards: BS 5152 & EN 13789 (Excluding of API, ANSI, & NACE Certification)	Pressure rating: PN-16, PN-25 Temp. rating: Upto 200°C Upto 350°C	Cast Iron GG25, Ductile Iron EN-JS-1050, Nodular Iron GGG40.3	SAFCO (Scon Valves) 1st Floor, Asif Chambers 14-A, Davis Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
902	8481.8090	Butterfly Valve (Wafer Type)	Sizes: 2" to 24" Standards: BS 5155 & EN 558 & DIN 3202 & EN 593 & Class 125 & Class 150, & JIS 10K, JIS 16K (Excluding of API, ANSI, & NACE Certification)	Pressure rating: PN-10 & PN-16 Temp. rating: Upto 200°C Upto 350°C	Cast Iron GG25, Ductile Iron EN-JS-1050, Nodular Iron GGG40.3	SAFCO (Scon Valves) 1st Floor, Asif Chambers 14-A, Davis Road, Lahore
903	8481.8090	Stop Valves	PN 10, DN 25, PN 1.6, DN 20, DN10 PN10,	--	--	Popular Pipe Fitting Manufacturers 24-Shalamar Town Lahore
904	8483.3010 8483.3020	Bearings, Plain Shafts, excluding carbon or graphite.	Self Lubricating, Sintered bearings. a) Inner Diameter : 40mm b) Outer Diameter: 50mm c) Lengths : 65mm	Cylindrical, Flanged and Spherical.	97% Iron & 3% Copper, 80% Iron & 20% Copper, 80% Copper and 20% Iron and 100% Bronze.	Adamjee Engineering (Pvt.) Ltd. Plot No. 1 & 16, Sector 20, Korangi Industrial Area Karachi
905	8483.4090	Gears, power transmission	Ring, spiral bevel, spur, shafts & couplers	Hardened and carburized	Various grades of mild steel	Millat Equipment Ltd. 10 KM, Raiwind Road Lahore Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
906	8501.4010 8501.4090	Single Phase Squirrel cage electric induction motors	200V-240V, 50HZ, Range : 0.5 HP (0.37KW) to 2HP (1.5KW)	--	--	MECO (Pvt) Ltd. Peco Road, Kot Lakhpat, Lahore
907	8501.5190	3-Phase Vertical hollow shaft electric motors.	380V-480V, 50/60 Hz Range : 10HP (7.5Kw) to 220Hp (164Kw)			MECO (Pvt) Ltd. Peco Road, Kot Lakhpat, Lahore
908	8501.5190 8501.5310	Electric Motors (Low Voltage Induction Motors)	Horizontal, Vertical, Solid Shaft & Hollow Shaft Motors. 3 phase squirrel cage Induction motor excluding flame proof motors, Range 0.55KW to 355KW Efficiency Class IE1 & IE2	-	-	KSB Pumps Company Limited, 16/2, Sir Agha Khan Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
909	8502.1120	Diesel Power Generating Sets	Of an output of above 5KVA but not exceeding 20 KVA	--	--	<p>Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi</p> <p>General Electromax Company 11-Km Jaranwala Road, Near Nazir CNG, Lahore</p> <p>The Imperial Electric Co. (Pvt) Ltd. 28-Egerton Road, Lahore</p> <p>Power Vision Systems (Pvt) Ltd., 16KM, Multan Road, Pakka Mile Stop Shahpur Kanjran, Lahore</p> <p>Millat Tractors Ltd. Sheikhupura Road, P.O.Box 12023, Shahdra Lahore</p> <p>Synergy Corporation A-16, Sector 6-F, Mehran Town, Korangi Industrial Area, Karachi</p> <p>Iman Group Plot No. 227, St No. 7, Sector I-9/2 Industrial Area, Near Dry Port Islamabad</p> <p>Advance Electronics International</p>
910	8502.1130	Diesel Power Generating Sets	Of an output of above 20KVA but not exceeding 50 KVA	--	--	<p>Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi</p> <p>General Electromax Company 11-Km Jaranwala Road, Near Nazir CNG, Lahore</p> <p>The Imperial Electric Co. (Pvt) Ltd. 28-Egerton Road, Lahore</p> <p>Power Vision Systems (Pvt) Ltd., 16KM, Multan Road, Pakka Mile Stop Shahpur Kanjran, Lahore</p> <p>Millat Tractors Ltd. Sheikhupura Road P.O.Box 12023, Shahdra Lahore</p> <p>Synergy Corporation A-16, Sector 6-F, Mehran Town, Korangi Industrial Area, Karachi</p> <p>Pana Communication Inc Plot No. 227, St No. 7, Sector I-9/2 Industrial Area, Near Dry Port Islamabad</p> <p>Advance Electronics International</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
911	8502.1190	Diesel Power Generating Sets	Of an output of above 50KVA but not exceeding 75 KVA	--	--	<p>Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi</p> <p>General Electromax Company 11-Km Jaranwala Road, Near Nazir CNG, Lahore</p> <p>The Imperial Electric Co. (Pvt) Ltd. 28-Egerton Road, Lahore</p> <p>Power Vision Systems (Pvt) Ltd., 16KM, Multan Road, Pakka Mile Stop Shahpur Kanjran, Lahore</p> <p>Millat Tractors Ltd. Sheikhupura Road P.O.Box 12023, Shahdra Lahore</p> <p>Synergy Corporation A-16, Sector 6-F, Mehran Town, Korangi Industrial Area, Karachi</p> <p>Iman Group Plot No. 227, St No. 7, Sector I-9/2 Industrial Area, Near Dry Port Islamabad</p> <p>Advance Electronics International</p>
912	8502.1190	Diesel Power Generating Sets	20 KW - 75 KW Diesel Daewoo, Perkins, Peugeot	--	--	<p>Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
913	8502.1200	Diesel Power Generating Sets	Of an output of above 75KVA but not exceeding 375 KVA	--	--	<p>Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi</p> <p>General Electromax Company 11-Km Jaranwala Road, Near Nazir CNG, Lahore</p> <p>The Imperial Electric Co. (Pvt) Ltd. 28-Egerton Road, Lahore</p> <p>Power Vision Systems (Pvt) Ltd., 16KM, Multan Road, Pakka Mile Stop Shahpur Kanjran, Lahore</p> <p>Millat Tractors Ltd. Sheikhupura Road P.O.Box 12023, Shahdra Lahore</p> <p>Synergy Corporation A-16, Sector 6-F, Mehran Town, Korangi Industrial Area, Karachi</p> <p>Iman Group Plot No. 227, St No. 7, Sector I-9/2 Industrial Area, Near Dry Port Islamabad</p> <p>Advance Electronics International</p>
914	8502.1310	Diesel Power Generating Sets	Of an output of above 375KVA but not exceeding 1100 KVA	--	--	<p>Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi</p> <p>General Electromax Company 11-Km Jaranwala Road, Near Nazir CNG, Lahore</p> <p>The Imperial Electric Co. (Pvt) Ltd. 28-Egerton Road, Lahore</p> <p>Power Vision Systems (Pvt) Ltd., 16KM, Multan Road, Pakka Mile Stop Shahpur Kanjran, Lahore</p> <p>Synergy Corporation A-16, Sector 6-F, Mehran Town, Korangi Industrial Area, Karachi</p> <p>Iman Group Plot No. 227, St No. 7, Sector I-9/2 Industrial Area, Near Dry Port Islamabad</p> <p>Advance Electronics International L/21-D, Block-21, F.B. Industrial Area, Rashid Minhas Road, Karachi – 75700</p>

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
915	8502.1390	Diesel Power Generating Sets	Of an output of above 1100KVA but not exceeding 1250 KVA	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi General Electromax Company 11-Km Jaranwala Road, Near Nazir CNG, Lahore The Imperial Electric Co. (Pvt) Ltd. 28-Egerton Road, Lahore Synergy Corporation A-16, Sector 6-F, Mehran Town, Korangi Industrial Area, Karachi Iman Group Plot No. 227, St No. 7, Sector I-9/2 Industrial Area, Near Dry Port Islamabad Advance Electronics International L/21-D, Block-21, F.B. Industrial Area, Rashid Minhas Road, Karachi – 75700
916	8502.2000	Generating Sets with spark- ignition internal combustion piston engines	Above 5KVA to 1250 KVA	--	--	Gresham's Eastern (Pvt) Limited F-302, S.I.T.E, Karachi Advance Electronics International L/21-D, Block-21, F.B. Industrial Area, Rashid Minhas Road, Karachi – 75700
917	8504.2100	Transformers	Liquid dielectric distribution transformers with power handling capacity 5 kVA to 650 kVA and voltages 230V to 132000V. Rating use at nominal system voltage upto 145000V and current rating upto 6000A.	--	--	Validus Engineering (Pvt) Ltd. B-72, Estate Avenue, SITE, Karachi-75700
918	8504.2100	Transformers	<u>Distribution Transformers (Pole Mounted)</u> - Capacity: 10 KVA to 630 KVA - 11 KV/ 415 Volt Step Down - 33 KV/ 415 Volt Step Down - 11 KV / 420 Volt Step Down <u>Pad Mounted Transformer (Kiosk)</u> - Capacity: 63 KVA (Single Phase), 100 KVA, 200 KVA, 400 KVA & 630 KVA (3-Phase) with H.V. & L.V. Panels (Step Down)	--	--	Transfopower Industries (Private) Limited 2 Km, Katar Bund Road, Off. Multan Road, Thokar Niaz Beg, Lahore Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore
919	8504.2200	Transformers	Liquid dielectric distribution transformers with power handling capacity exceeding 650 KVA but not exceeding 10,000 KVA and voltages 230V to 132000V. Rating use at nominal system voltage upto 145000 volts and current upto 6000 Amps	--	--	Validus Engineering (Pvt) Ltd. B-72, Estate Avenue, SITE, Karachi-75700 Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
920	8504.2200	Power Transformers / Furnance Transformers/ Special Transformers	<u>Power Transformers</u> - Capacity: 750 KVA to 5000KVA - 11 KVA/ 415 Volt Step Down - 33 KV / 415 Volt Step Down - 11 KVA/ 420 Volt Step Down <u>Furnance Transformers</u> - Upto 5000KVA - Specific requirement of the Customers <u>Special Transformers</u> - Upto 5000KVA - Specific requirement of the Customers	--	--	Transfopower Industries (Private) Limited 2 Km, Katar Bund Road, Off. Multan Road, Thokar Niaz Beg, Lahore
921	8504.2300	Transformers	Liquid dielectric distribution transformers with power handling capacity over 10,000 KVA voltages 230V to 132000V. Rating use at nominal system voltage upto 145000V and current rating upto 6000A.	--	--	Validus Engineering (Pvt) Ltd. B-72, Estate Avenue, SITE, Karachi-75700
922	8504.3100	Instrument Transformers	Power Handling capacity not exceeding 1 KVA (Dry Type) As per IEC / WAPDA / KESC Specifications	Oil Immersed	--	Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700 Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore
923	8504.3200	Distribution Transformers	<u>Distribution Transformers (Pole Mounted)</u> - Capacity: 5 KVA to 15 KVA - 11 KVA/ 415 Volt Step Down - 33 KV/ 415 Volt Step Down - 11 KVA / 420 Volt Step Down	Pole Mounted As per IEC/ WAPDA/ KESC Specifications	--	Transfopower Industries (Private) Limited 2 Km, Katar Bund Road, Off. Multan Road, Thokar Niaz Beg, Lahore Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700 Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore
924	8504.3300	Transformers	Power Handling capacity exceeding 16 KVA but not exceeding 500 KVA As per IEC / WAPDA / KESC Specifications	Oil Immersed	--	Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700 Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore
925	8504.3300	Oil-Immersed Transformers	300KVA to 1700KVA			Transfopower Industries (Pvt) Ltd. 2 km, Katar Bund Road, Off Multan Road Lahore Validus Engineering (Pvt) Ltd. B-72, Estate Avenue, SITE, Karachi-75700 Pakistan Elektron Ltd (PEL) 14-km, Ferozepur Road Lahore Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
926	8504.3400	Transformers	Ratings upto 160MVA, Voltage rating upto 220KV, Oil filled type, standard IEC76,	--	--	Heavy Electrical Complex Industrial Estate Distt. Haripur
927	8504.3400	Power Transformers / Furnance Transformers/ Special Transformers	<u>Power Transformers</u> - Capacity: 750 KVA to 5000KVA - 11 KVA/ 415 Volt Step Down - 33 KV / 415 Volt Step Down - 11 KVA/ 420 Volt Step Down <u>Furnance Transformers</u> - Upto 5000KVA - Specific requirement of the Customers <u>Special Transformers</u> - Upto 5000KVA - Specific requirement of the Customers	As per IEC/ WAPDA/ KESC Specifications	--	Transfopower Industries (Private) Limited 2 Km, Katar Bund Road, Off. Multan Road, Thokar Niaz Beg, Lahore Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700 Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore
928	8504.4010 8504.4090	Uninterrupted power supply (UPS)	500VA to 6600VA	Standard & Long Backup	--	Saltec Powerlink 18C/5, Khyabane Tanzeem DHA 5 , Karachi
929	8504.4090	Rectifiers, electric	Rectifiers categorized by DC voltage rating and the load current in a standard voltage rating of 24V, 48V/ 220V- AC to 48V/24V-DC power supply Coulomb-1000	Metal body	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
930	8504.4090	Rectifiers, electric	200Vac to 48VDC, 10 to 40 Amps with or without battery backup (0.5 to 8 hours) SMPS technology	--	--	Saltec Powerlink 18C/5, Khyabane Tanzeem DHA 5 , Karachi
931	8504.4090	Power Supply Units	Input 19-36 VDC, Output 24VDC at 6-Amps and 24 Amps for 15 mSec & 50 VDC at 1.5 Amps Voltage Regulation- 20% Max	--	--	East West Infiniti (Pvt) Ltd. Plot 146 Industrial Triangle, Kahuta Road, Islamabad
932	8504.9090	Speed Checking System for Vehicular Traffic	Speed Sensors capable of reading at up to 1.5 KM High resolution digital still camera / video recorder Number plate / Drivers face recognition Named / Unnamed operation modes Wireless communication enabled for remote	--	--	East West Infiniti (Pvt) Ltd. Plot 146 Industrial Triangle, Kahuta Road, Islamabad
933	8506.1000	Dry Battery Cell	R-20 (UM-1) & R-6 (UM-3) manganese Dioxide, non-rechargeable	--	--	Kohinoor Battery Mfrs. (Pvt) Ltd., Tibet Centre, M.A. Jinnah Road, Karachi-74400
934	8506.1000	Dry Battery Cell	Size: R-20, R-6 & R-3	--	--	Indus Battery Industries (Pvt) Ltd. F-244, Manghopir Road S.I.T.E Karachi
935	8507.1010	12 V 4Ah	3/4 Ah	Dry Charge Motorcycle Battery	LI Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
936	8507.1010	12 V 6Ah	5 Ah	Dry Charge Motorcycle Battery	SLI & LI Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
937	8507.1010	12 V 8Ah	7 Ah	Dry Charge Motorcycle Battery	SLI & LI Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
938	8507.1010	12 V 10Ah	9 Ah	Dry Charge Motorcycle Battery	SLI & LI Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
939	8507.1010	6 V 210 (Tubular Plate)	210 Ah	GCF-210	Wet Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
940	8507.1010	6 V 220 (Flat Plate)	220 Ah	GCF-220	Wet Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
941	8507.1010	6 V 240 (Flat Plate)	240 Ah	GCF-240	Wet Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
942	8507.1010	8 V 160 (Flat Plate)	160 Ah		Wet Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
943	8507.1010	6-DZM-28 6-DZM-20	28 Ah 17/20 Ah	Sealed Lead Acid Batteries	AGM Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
944	8507.2010	Sealed Lead Acid Batteries (Maintenance Free Batteries)	12 Valve Regulated Lead Acid (VRLA) Batteries 24 AH to 200AH 2V cell 200AH to 3000AH (for use in telephone exchanges)	--	--	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
945	8507.2090	12 V 3.5 A (VRLA MCB)	3/4 Ah	VRLA Motorcycle Battery	AGM Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
946	8507.2090	12 V 7 A	7 Ah	VRLA	AGM Type	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
947	8507.2090	Other Lead Acid Batteries/ Industrial Cells	12 Batteries, 24AH to 200AH 2V Cell 200AH to 3000AH Sealed & VRLA Batteries	--	--	Pakistan Accumulators (Pvt) Ltd. Head Office House No. 2, Street 63, F-8/4, Islamabad
948	8507.2090	Lead Acid Battery	2-6 Volts (For standby Storage, switch gears, Solar Panels etc.)	--	--	Exide Pakistan Ltd. A/45, Hill Street, P.O. Box No. 3680 SITE Karachi-75400
949	8514.2000	Furnaces, Induction or dielectric, electric,	From 50kg upto 50MT	--	--	Electro Heat (Pvt) Ltd 10-km Ottawa More G.T. Road, Gujranwala
950	8516.5000	Microwave Ovens	Up to 75 liters	--	--	Dawlance (Pvt) Ltd. Dawlance Center 7/4, Civil Lines 9 Dr. Ziauddin Ahmed Road Karachi.
951	8516.8090	Electric Elements for heating	220/240 V A.C. , Wattage 2000-3000 Flange 2.5" BSW	Material Copper, incoloy, SS, Titanium, Dia 8mm, Length 11", 14", 18", 23", 27", 30", 36"	--	Tesla Industries Pvt. Ltd. Plot No. 81-F, St. 6, I-10/3 Islamabad
952	8517.1220	Fixed Wireless/ Cellular Terminals With GSM Modules	FWT-1000G: Fixed Wireless GSM Terminal for add on for PABX FWT	--	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad Microtech Industries (Pvt) Ltd. Plot No. 2, Street No. 2, Attari Industrial Estate, 18 Km, Ferozpur Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
953	8517.1220	Fixed Wireless Terminals (FWT)	Based on CDMA technology, supports CDMA bandwidth and provide data, voice and SM services through the CDMA network. Main functions as below: 1). Voice communication function. 2). UIM-card: Supporting UIM-card function. 3). Data communication function: Packet, Asynchronous data and PC fax services. 4). Security: PIN-Locking functions.	--	--	Zhongxing Telecom (ZTE) Pakistan (Pvt.) Ltd. Plot # 424, Street # 16, I-9/3, Opp I-9 Police Station, Islamabad
954	8517.1290	Wireless payphones	GSM wireless payphone Terminal (Model: PWT 1400G) PWT 1400G is an Integrated GSM wireless payphone (Indoor) supports a broad range of voice and data services i.e. Standard payphone operation, fax transmission, Internet access, with built in GSM transceiver in tri band 900MHz, 1800MHz & 1900MHz.	--	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
955	8517.1290	Telephone sets, Line transmission, without cordless	Land Line & GSM Payphone	--	--	Microtech Industries (Pvt) Ltd. Plot No. 2, Street No. 2, Attari Industrial Estate, 18 Km, Ferozpur Road, Lahore
956	8517.1290	Telephones, card-operated	Wireline Chipcard Based Indoor and Outdoor Payphone (Models:PT1100, PT1400, PTO2000) Comprehensive call logging and reporting facility. Complete remote configuration, Management and control through NMS. Security against fraud. Multi-level alarm reporting facility. Incoming call barring facility. Multiple call charging options. Self-test and diagnostic for on-site maintenance. 4Kbyte tariff table storage capacity, Visual on-line up-date of call charges to user. 20 x 4 character display. Built-in modem. Functional keys with programmable option. Line-powered with line voltage of 48V or 60V DC . Reads all chip cards conforming to ISO 7816.	Plastic Casing in three catching colors with a so	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
957	8517.1290 8517.1890	Payphone	WLL CDMA Wireless Payphone Terminal (Model: PWT1400C) PWT1400C with standard antenna connection to establish RF link with the corresponding CDMA based station of a cellular or WLL network and wireless payphone operation takes place.	--	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
958	8517.6290	PABX	Megaswitch-500 Upto 500 Lines	--	--	Megatech Communications (Pvt.) Ltd. 47, Banglore Town Off: Tipu Sultan Road. Karachi
959	8517.6290	PABX	Megaswitch-100 Upto 150 Lines	--	--	Megatech Communications (Pvt.) Ltd. 47, Banglore Town Off: Tipu Sultan Road. Karachi
960	8517.6290	PABX	Megaswitch Series 50 Upto 48 Lines	--	--	Megatech Communications (Pvt.) Ltd. 47, Banglore Town Off: Tipu Sultan Road. Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
961	8517.6290	PABX	Megaswitch Serires 30 Upto 32 Lines	--	--	Megatech Communications (Pvt.) Ltd. 47, Banglore Town Off: Tipu Sultan Road. Karachi
962	8517.6290	PABX	Telemate-XII (2+10 Lines)	--	--	Megatech Communications (Pvt.) Ltd. 47, Banglore Town Off: Tipu Sultan Road. Karachi
963	8517.6290	Telephone exchanges	Fixed Line Telephone Switching System (ZXJ10) This Switch has distributed modularized structure that consists of modules and cards that work together in a complete task. The total quantity of modules & cards is 32 amongst 25	--	--	Zhongxing Telecom (ZTE) Pakistan (Pvt.) Ltd. Plot # 424, Street # 16, I-9/3, Opp I-9 Police Station, Islamabad
964	8517.6290	Telephone exchanges	Standard	--	--	Telephone Industries of Pakistan Khanpur Road, Haripur
965	8517.6290	Telephone exchanges	Configuration Types: Local Exchange Tandem Exchange Transit Exchange International Gateway Functions: Voice switching / network (PSTN) Data switching / network Intelligent Network Connectivity: 200,000 subscribers per exchange. 60,000 ports per exchange.	--	--	Alcatel Pakistan (Pvt) Ltd. Sector H-8/4 Islamabad
966	8517.6290	Telephone exchanges	Modern electronic digital switching system (EWSD)	--	--	Telephone Industries of Pakistan Khanpur Road, Haripur
967	8517.6290	Optical Transmission Equipments (Optical Transmission Products SDH,NG-SDH)	NG-SDH integrates the functions of traditional SDH (including ADM, TM, REG), DXC IP/ATM and DWDM in one. The system support the following functions: 1). MSTP (Multi-Service Transport Platform) function. 2). Provide high-speed, large capacity information transmission. 3). Offer multi service access of STM-64/OC-192, STM 16/OC-48, STM-4/OC-12, STM-I/OC-3, E4, E3/T3, E1/T1, 10M/100M, GE, ATM, ESCON etc. 4). Suitable for the transmission of IP and ATM services. 5). Perform multi protocol encapsulation, virtual concatenation, bandwidth share, service convergence, VLAN partition-LCAS, STP, etc. 6). Has the functions of ATM cell exchange, service convergence, statistic multiplex and VP-ring.	--	--	Zhongxing Telecom (ZTE) Pakistan (Pvt.) Ltd. Plot # 424, Street # 16, I-9/3, Opp I-9 Police Station, Islamabad
968	8517.6290	Line Protection Units	LPU: Line Protection Units Misuse protection and direct communication with network Management System.	--	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
969	8517.6290	Electronic Field Telephones Inter Trench Communication (ITC-2000)	<u>EFT-101</u> - Operating Voltage 4.5VDC - Fre Range 300 to 3400 Hz - Impedance 600 Ohms <u>ITC-2000</u> - Operating Voltage 4.5VDC - Environmental Temperature -15 to +55C - Impedance -20 to +60C	Military standards	--	National Radio Telecommunication Corporation Marketing & Sales Deptt National Radio Telecommunication Corporation T&T Colony Haripur

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
970	8517.6290	Digital Electronic Field Telephone Exchanges	<u>PFX-6416 and PFX-3208</u> - Power Requirement 220VAC/24VDC - Ring Voltage 90 VAC. 25 Hz - Operating Temperature -30 to +55C <u>PFX-1204</u> - Power Requirement 180 to 260VAC/24VDC - Ring Voltage 90 VAC. 25 Hz - Operating Temperature -30 to +55C <u>PFX-5200C</u> - Power Requirement 90 to 260VAC/48VDC - Ring Voltage 2000 Ohms - Operating Temperature -10 to +50C <u>Automag 412</u> - Power Requirement 220VAC/12VDC - Ring Voltage 90 V \pm 20VAC - Operating Temperature -10 to +45C	--	--	National Radio Telecommunication Corporation Marketing & Sales Deptt National Radio Telecommunication Corporation T&T Colony Haripur
971	8517.6930	Mobi Router (GSM Call Router)	Mobi Router (GSM Call Router)	--	--	Microtech Industries (Pvt) Ltd. Plot No. 2, Street No. 2, Attari Industrial Estate, 18 Km, Ferozpur Road, Lahore
972	8518.2100	Loudspeakers, Single, mounted in their enclosures	Speaker for Car Radio & Cassette player	--	--	Automate Industry C-23, Estate Avenue, S.I.T.E , Karachi
973	8519.8910	CD players, audio, without sound recording device	Radio CD/MP3 Players	--	--	Automate Industry C-23, Estate Avenue, S.I.T.E , Karachi
974	8523.2100	Cards incorporating a magnetic stripe	Magnetic Card			Kwick High Tech & Solutions (Pvt) Ltd. Plot No. 100-A, Street No. 14 Sector I-9/2, Industrial Area, Islamabad.
975	8523.2910 8523.2930	Cassettes, magnetic, audio, blank, width not over 4mm	Blank/Recorded	--	--	B. S. Magnetic (Pvt) Ltd. LA-1/8, Block 22, Federal B. Industrial Area Karachi
976	8523.4110	CD-R, blank, for computer	CD-R (Blank)	--	--	Oyster Technologies (Pvt) Ltd Plot No.08, Sector 24, Korangi Industrial Area, Karachi
977	8523.4120	DVD, for computer	DVD-R	--	--	Oyster Technologies (Pvt) Ltd Plot No.08, Sector 24, Korangi Industrial Area, Karachi
978	8523.5210	SIM cards	GSM SIM Cards			Kwick High Tech & Solutions (Pvt) Ltd. Plot No. 100-A, Street No. 14 Sector I-9/2, Industrial Area, Islamabad.
979	8523.5220	Memory Cards	Nadra/Banking Cards			Kwick High Tech & Solutions (Pvt) Ltd. Plot No. 100-A, Street No. 14 Sector I-9/2, Industrial Area, Islamabad.
980	8525.5090	Ground to Air UHF / VHF Communication Radio	Synthesized VHF/UHF Transceivers 32 Programmable channels, Channel scanning , Dual Channel () Watch 108 ~ 137 MHz & 225-400 MHz frequency ranges Built in Test equipment	--	--	East West Infiniti (Pvt) Ltd. Plot 146 Industrial Triangle, Kahuta Road, Islamabad

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
981	8525.5090	Upgraded VHF/FM Radio Set VHF/ FM Frequency Hopping Manpack & Vehicular Radio Sets	<u>PRC-77/PK</u> - Operating Voltage 4.5 VDC - Storage Temperature -20 To +60C - Environmnetal Temperature -15 TO +55C <u>9600 Series</u> - Operating Temp Range -40 to +60C - Storage Temperature -55 To +70C - Environmnetal Temperature 3120	--	--	National Radio Telecommunication Corporation Marketing & Sales Deptt National Radio Telecommunication Corporation T&T Colony Haripur
982	8525.6020	Payphone	PWTO 2000G: GSM Wireless out door Payphone Terminal chip card outdoor wireless payphone, built In GSM transceiver in tri band 900 MHz.	--	--	Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
983	8525.6060	Vehicle Tracking System	Vehicle Tracking System	--	--	Microtech Industries (Pvt) Ltd. Plot No. 2, Street No. 2, Attari Industrial Estate, 18 Km, Ferozpur Road, Lahore
984	8527.2110	Players, radio cassette, for motor vehicles	Car Radio/Cassette/CD/MP3 Players, Speakers. Antenna	--	--	Automate Industry C-23, Estate Avenue, S.I.T.E , Karachi
985	8528.7211	Television sets, colour	Liquid crystal display (LCD)	--	--	Dynasel Ltd. 20/II, Block-D, Model Town, Lahore New Allied Electronics Industries (Pvt) Ltd. 7th Floor, Lakson Squaire Building No.1, Sarwar Shaheed Road, Karachi Singer Pakistan Ltd. 608, 6th Floor, Beaumont Plaza, Beaumont Road, Near PIDC House, Karachi
986	8528.7212	Television sets, colour	Compatible NTSC/PAL	Image displays	--	Sysco Industrial Company 4th Floor Al-Hayat Centre 14/A Hall Road Lahore
987	8528.7212	Television sets, colour	14", 20", 21", 25" 29" Luminar Brand Color TV Sets	--	--	S.N.H Industries (Pvt.) Ltd. L-9 Block 21 F. B Industrial Area Karachi 75950
988	8528.7220	Receiver sets	Reception apparatus for receiving satellite signals of a kind used with TV (Satellite dish receivers)	--	--	Dynasel Ltd. 20/II, Block-D, Model Town, Lahore New Allied Electronics Industries (Pvt) Ltd. 7th Floor, Lakson Squaire Building No.1, Sarwar Shaheed Road, Karachi Singer Pakistan Ltd. 608, 6th Floor, Beaumont Plaza, Beaumont Road, Near PIDC House, Karachi
989	8528.7212 8528.7300	Television receiver sets, colour, black & white or other monochrome.	Colour Television Sets of screen sizes 14" to 62" including Conventional type TV sets, Flat TV sets, Projection TV sets, Plasma TV sets.	--	--	Dynasel Ltd. 20/II, Block-D, Model Town, Lahore New Allied Electronics Industries (Pvt) Ltd. 7th Floor, Lakson Squaire Building No.1, Sarwar Shaheed Road, Karachi Singer Pakistan Ltd. 608, 6th Floor, Beaumont Plaza, Beaumont Road, Near PIDC House, Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
990	8529.1090	Antennas for radios and television sets	Antenna Ass'y for Car Radio	--	--	Automate Industry C-23, Estate Avenue, S.I.T.E , Karachi
991	8529.9090	Television body	Plastic Covers front and back for televisions	--	--	Synthetic Products Enterprises (Pvt) Ltd. 127-S S.I.E Kotlakhpat Township Lahore
992	8532.1000	Capacitors, fixed, power	Single Phase capacitors for voltage up to 2000 V, Three Phase Capacitors for voltage up to 1000 V, 50 and 60 Hz, dry type as well as oil impregnated, In rating up to 200 kVAR.	--	--	Amber Capacitors Ltd. 16 Link McLeod Road, Lahore
993	8532.1000	L.V. Power factor improvement capacitors single phase and three phase	0.50 KVAR upto 200 KVAR 220 VAC upto 660 VAC	Plastic and Aluminum Body	--	Khawaja Electronics (Pvt) Ltd. 4-H, Gulberg-III, Lahore
994	8532.2200	Capacitors, fixed, Aluminum electrolytic	Capacitors in Voltages up to 440V 50/60 Hz, rating up to 400 MFD	--	--	Amber Capacitors Ltd. 16 Link McLeod Road, Lahore
995	8532.2200	Capacitors for motor start application	20UF upto 400UF 100 VAC upto 660 VAC	Aluminum and backelite body	--	Khawaja Electronics (Pvt) Ltd. 4-H, Gulberg-III, Lahore
996	8532.2500	Capacitors, fixed, dielectric, of paper or plastic	Capacitors of voltage up to 660 V, 50/60 Hz, in aluminum and plastic casings	--	--	Amber Capacitors Ltd. 16 Link McLeod Road, Lahore
997	8532.2500	Capacitors for domestic appliances	0.50 uf upto 100 UF 100 V.A.C upto 660 V.A.C.	Plastic and Aluminum Body	--	Khawaja Electronics (Pvt) Ltd. 4-H, Gulberg-III, Lahore
998	8532.2500	Special application capacitors	0.25 UF upto 3.0 UF 2 K.V upto 12K.V.	M.S & S.S. Container	--	Khawaja Electronics (Pvt) Ltd. 4-H, Gulberg-III, Lahore
999	8532.2900	Capacitors Up to 11 KV /12/3Kv High Voltage /Shunt Capacitors	Single Phase Capacitors for voltage up to 12000 volts oil impregnated, in rating 25 kVAR up to 600 kVAR	Mild Steel	--	Khawaja Electronics (Pvt) Ltd. 4-H, Gulberg-III, Lahore
1000	8534.0000	Printed Circuit Boards	Single, Double Sided and multilayer, rigid, bare PCBs for all types of Electronic Products.	--	--	National Institute of Electronics Ministry of Science & Technology H. No. 17, Sector H-9, P.O. Box 1406, Islamabad Smart PCBs Service Road, Shaheen Town near Airport Chowk, Rawalpindi
1001	8535.1000	Fuse Dropout/ Cutout	For 11KV Transmission Lines	--	--	Creative Engineering (Pvt) Ltd. 160/ S, Q.I.E. Kot Lakhpat Lahore
1002	8535.2110 8535.2190	Circuit breakers	Automatic, voltage below 72.5 kV Oil / Vacuum Type	--	--	Schneider Electric Pakistan (Pvt) Ltd. (formerly AREVA T&D Pakistan (Pvt) Ltd) D-163, S.I.T.E Karachi Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700
1003	8535.3010	Isolating Switches	Isolating Switches (Air Insulated) and make-and-break switches for a voltage upto 145kV	--	--	Emco Industries Limited 2nd Floor, Saudi Pak House, 14-Egerton Road, Lahore
1004	8535.4010	Lightening Arrestors	Voltage limiters and Surge suppressors over 1 KV	--	--	Emco Industries Limited 2nd Floor, Saudi Pak House, 14-Egerton Road, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1005	8536.4900	Annunciators	Transformer temperature gauges, Trip circuit DC supervision relays, Under Voltage relays, Motor protection relays, Panel humidity controllers, Timers, Flasher relays, Automatic transfer switch.	--	--	E-Labs 456/7, Lane12 A Iqbal Park Cantt. Lahore.
1006	8536.5099	Electric Switches	Plugs and Socket-Outlets, voltage not over 1 KV, for household and similar purposes electrical switches, power plugs/sockets assemblies for household/ industrial application - outlets without interlock for fixed - outlets for selv - for adaptors - outlets with in terlock for fixed installations- Appliance couplers for - Part 2-1: Sewing machine couplers -Part 2-2: Interconnection couplers for household and similar equipment -- Part 2-3: Appliance coupler with a degree of protection higher than IPX0 -IEC system of plugs and socket-outlets - Part 1: 16 A 250 V a.c. -IEC system of plugs and socket-outlets - Part 2:15 A 125 V a.c. - IEC system of plugs and socket-outlets - Part 3: SELV plugs and socket-outlets, 16 A 6V, 12 V, 24 V, 48 V, a.c. and d.c. -"Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c." - surge voltages in low-voltage AC Power circuits- Radio-noise emissions from low-voltage electrical and electronic equipment in the ranage of 9 KHZ to 40 GHz -	--	Polycarbonate, Multigrade PVC,Cu 99.9%,ABS,PC,	The Crown Engineering Works (Pvt) Ltd. 17-KM, Sheikhpura Road, Lahore
1007	8536.6910	DPs	- 10 Pairs - 20 Pairs - 50 Pairs - 100 Pairs	Pillar Type DPs, Pole Type, Cross Connectoin Cabinets, DP Thermo Plastic (Pole type)	--	National Radio Telecommunication Corporation Marketing & Sales Deptt National Radio Telecommunication Corporation T&T Colony Haripur

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1008	8536.6990	Electrical Plugs and Sockets	Plugs and Socket-Outlets, voltage not over 1 KV, for household and similar purposes electrical switches, power plugs/sockets assemblies for household/ industrial application - outlets without interlock for fixed - outlets for selv - for adaptors - outlets with in terlock for fixed installations- Appliance couplers for - Part 2-1: Sewing machine couplers -Part 2-2: Interconnection couplers for household and similar equipment -- Part 2-3: Appliance coupler with a degree of protection higher than IPX0 -IEC system of plugs and socket-outlets - Part 1: 16 A 250 V a.c. -IEC system of plugs and socket-outlets - Part 2:15 A 125 V a.c. - IEC system of plugs and socket-outlets - Part 3: SELV plugs and socket-outlets, 16 A 6V, 12 V, 24 V, 48 V, a.c. and d.c. -"Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c." - surge voltages in low-voltage AC Power circuits- Radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 KHz to 40 GHz -	--	Polycarbonate, Multigrade PVC,Cu 99.9%,ABS,PC,	The Crown Engineering Works (Pvt) Ltd. 17-KM, SHeikhupura Road, Lahore
1009	8537.1090	Control Panels	L.T. Switchgear panels upto 1,000 Volts and lighting / power distribution boards, control panels, control signaling and relay panel for grid stations, rectifier panel upto 200 Amps. Motor Control Centers including Programmable Logic Controllers and related instrumentation and control, sugar, steel rolling, low voltage switchgears PFI Plant. [Excluding panels of proprietary compressor engine Oil & Gas application valves pumps & actuators and in explosion & flame proof exclusion. Certified by ATX, explosion proof].	--	--	Siemens Pakistan Engineering Co. Ltd. B-72, Estate Avenue, SITE, P.O. Box No. 7158 Karachi-75700 Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700 Elmetec (Pvt) Ltd. 19 KM Ferozepur Road, Lahore
1010	8536.9090	Junction Boxes	Electrical Wiring Accessories, voltage not over 1KV (Excluding explosion & flame proof)	--	--	Clipsal Pakistan (Pvt) Ltd. 101-102, Sector 15, Korangi Industrial Area, Karachi
1011	8537.1090	Switchboards	Direct-on-line starter 10HP NSD starter 15 HP, Motor control unit 25 HP, automatic starter of delta type of 50 HP, 5-250 HP ASD Starter, 5-15 HP DOL Starter. [Excluding certified by ATX, Explosion Proof]	--	--	Siemens Pakistan Engineering Co. Ltd. B-72, Estate Avenue, SITE, P.O. Box No. 7158 Karachi-75700
1012	8537.2000	Control Panels	3 Phase, upto 60KVA, protection panel for severe over voltage (slow & fast), phase-neutral reversal, etc [Excluding panels of proprietary compressor engine Oil & Gas application valves pumps & actuators and in explosion & flame proof exclusion. Certified by ATX, Explosion Proof]	Microprocessor based, with remote alarm interface	--	Saltec Powerlink 18C/5, Khyabane Tanzeem DHA 5 , Karachi

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1013	8537.2000	Control Panels	H.T. Circuit breakers (Switchgear) panels upto 4000A, 40KA & 17500 Volts [Excluding panels of proprietary compressor engine Oil & Gas application valves pumps & actuators and in explosion & flame proof exclusion. Certified by ATX, Explosion Proof]	--	--	Siemens Pakistan Engineering Co. Ltd. B-72, Estate Avenue, SITE, P.O. Box No. 7158 Karachi-75700 Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700 Elmetec (Pvt) Ltd. <u>19 KM Ferozepur Road, Lahore</u>
1014	8537.2000	Switchboards, Switchgears & Panels	Up to 17.5 kv; 4000 AMP, 40 KA	--	--	Schneider Electric Pakistan (Pvt) Ltd. (formerly AREVA T&D Pakistan (Pvt) Ltd) D-163, S.I.T.E Karachi Johnson & Phillips (Pakistan) Ltd. C-10, South Avenue, S.I.T.E. P.O Box No. 3603, Karachi - 75700
1015	8539.2200	Electric Bulbs	Bulbs from 25W to 200W, Life upto 1000 Hrs, voltage over 100 V	--	--	Khyber Electric Lamps 483/E-1, Tariq Road, Peshawar Cantt. Peshawar
1016	8541.4000	Photovoltaic Modules (Solar Panels)	Maximum Power: 5 Watts to 300 Watts Nominal Voltage: 6V/ 12V / 24V	Photovoltaic Cells Junction Box: Plastic Frame: Aluminium Front Side: Tempered Glass Back Side: Tedlar Cell Encapsulation: EVA - Operating Temp. -40°C to +90 °C - Storage Temp. -40°C to +90 °C - Pressure bearing < 5400 Pa - Wind bearing < 2400 Pa - Hail Impact test 25mm diameter hail - Ball at 23.00 m/s, directed at 11 impact location - Temp. Coff of Isc +0.05% / C - Temp. Coff. of Voc – 0.34% / C - Temp. Coff. of Pm-0.5%/C - Power Output Tolerance + 3%	--	Tesla Industries Pvt. Ltd. Plot No. 81-F, St. 6, I-10/3 Islamabad
1017	8542.3300	Pair Gain System	Optical 4, 8 & 12 clear 64 Kbps channels over one single copper pair.	--	--	National Radio Telecommunication Corporation Marketing & Sales Deptt National Radio Telecommunication Corporation T&T Colony Haripur
1018	8544.1110	PVC Cable	10mm to 300mm sq. (Excluding ultra violet treated cables)	Copper-Aluminium PVC, Polythylene	--	Cable & Conductor Ltd. 1st Floor, 41 Civic Centre Barkat Market New Garden Town, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1019	8544.1190	PVC Cable	10mm to 300mm sq. (Excluding ultra violet treated cables)	Copper-Aluminium PVC, Polyethylene	--	Cable & Conductor Ltd. 1st Floor, 41 Civic Centre Barkat Market New Garden Town, Lahore Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1020	8544.1190	Enamelled Copper Wire	Type of Varnish: Plyurethane, Polyester Imide; Diameter Test: Bare Dia as per international standard, Coated dia: Grade-2, Elangation Test of thin guages: 25% to 27%, Elangation Test of thick guages: 28% to 36%, Break Down Voltage Test: 6 Kv to 12 Kv (Excluding ultra violet treated cables)	--	--	Wahid Industries Ltd. G. T. Road, Gujrat Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore
1021	8544.2000	Telephone Cables PVC Insulated	Range of Sizes: 1 Pair to 50 Pair Pakistan Cable's spec and as per others specification e.g Europeans,American, Japanese,etc (Excluding ultra violet treated cables)	Armoured / Un-Armoured	• High Conductivity Copper • Electrical Grade PVC	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1022	8544.2000	Welding Cable	Range of Sizes: 16MM ² to 300MM ² BSS-638 (Excluding ultra violet treated cables)	Rubber Sheathed	• High Conductivity Copper • Electrical Grade PVC	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1023	8544.2000	LSF Cable / HFFR for all GWC/LV/MV/ Flexible cable	Range of Sizes: as per Customers requirement IEC-60502, BSS-7211, BSS-6724 Also as per others specification. e.g Europeans,American, Japanese,etc (Excluding ultra violet treated cables)	• Low Smoke & Fume • Halogen Free Fire Retarded	• High Conductivity Copper • Electrical Grade PVC	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1024	8544.2000	Insulated Cable	Drop Wire and Spiral - 4 Range of Sizes: as per Customers requirement (Excluding ultra violet treated cables)	--	• High Conductivity Copper • Electrical Grade PVC	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1025	8544.2000	Shooting Wire	Voltage Grade: upto 300/500 Volts (Excluding ultra violet treated cables)	--	<ul style="list-style-type: none"> • High Conductivity Copper • Electrical Grade PVC 	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1026	8544.2000	Cables, co-axial	Cable Bond etc (Excluding ultra violet treated cables)	--	--	Automate Industry C-23, Estate Avenue, S.I.T.E , Karachi Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1027	8544.4910	Telephone Cables	All telephone cables i.e. telecommunication cables, indoor telephone cables, audio/radio frequency cables, junction cables, primary cables, secondary cables, jelly filled cables, drop wire, switch board & jumper cables. (Excluding ultra violet treated cables)	--	--	Atlas Cables (Pvt) Limited, Karachi 9th Floor Textile Plaza, Mumtaz Hasan Road P.O. 5195, Karachi-74000 A.G.E. Cables 97-A Industrial Estate, Jamrud Road, Peshawar Premier Cables 924/2 Gul-e-Rehmat Building Opposite Sabil Masjid, 18-C Clayton Road Guru Mandar Karachi-74800 Pakistan Telephone Cables Room No. 107, Elahi Center Preedy Street Saddar, Karachi-74400
1028	8544.4910	Telephone Cables	All telephone cables i.e. telecommunication cables, indoor telephone cables, audio/radio frequency cables, junction cables, primary cables, secondary cables, jelly filled cables, drop wire, switch board & jumper cables. (Excluding ultra violet treated cables)	--	--	Atlas Cables (Pvt) Limited, Karachi 9th Floor Textile Plaza, Mumtaz Hasan Road P.O. 5195, Karachi-74000 A.G.E. Cables 97-A Industrial Estate Jamrud Road, Peshawar Premier Cables 924/2 Gul-e-Rehmat Building Opposite Sabil Masjid, 18-C Clayton Road Guru Mandar Karachi-74800 Pakistan Telephone Cables Room No. 107, Elahi Center Preedy Street Saddar Karachi-74400 Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1029	8544.4920	Multicore core, flexible, flat type copper, insulated (all features together)	From 1 mm ² to 400 mm ² Voltage grade upto 1000 Volts BS 6004; BS 6346 (Excluding ultra violet treated cables)	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700
1030	8544.4920	Multicore core, flexible, flat type copper, insulated (all features together)	From 1 mm ² to 400 mm ² Voltage grade upto 1000 Volts BS 6004; BS 6500 (Excluding ultra violet treated cables)	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700
1031	8544.4990	Air field lighting cable and Submersible Cables	Range of Sizes: as per Customers requirement Voltage Grade: a) Upto 5KV b) upto 600/1000 Volts As per customer required Specs and as per others specification. e.g Europeans,American, Japanese,etc (Excluding ultra violet treated cables)	PVC Sheathed	<ul style="list-style-type: none"> • High Conductivity Copper • Electrical Grade PVC 	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1032	8544.4990	Control Cables	With copper conductor 600/1000 volts WAPDA P100:2005 (Excluding ultra violet treated cables)	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700
1033	8544.4990	Insulated wire, cables	Single Core & Multicore (Including Co-axial cable) PVC/XLPE Range of Sizes: 0.5MM ² to 1000MM ² Voltage Grade: Up to 15KV BSS-6004, IEC-227, IEC-60227, IEC-502, IEC 60502, BSS-6346. Also as per others specifications e.g Europeans, American, Japanese,etc (Excluding ultra violet treated cables)	<ul style="list-style-type: none"> • Armoured / Un-Armoured • PVC Sheathed 	<ul style="list-style-type: none"> • High Conductivity Copper • Electrical Grade PVC • XLPE 	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1034	8544.4990	L.V cable	Copper or Aluminium conductor. XLPE or PVC insulated cable. Single Core & Multicore Range of Sizes: 1.5MM ² to 1000MM ² Voltage Grade: upto 1900/3300 volts BSS-6346, IEC-502, IEC -60502. Also as per others specification.e.g Europeans, American, Japanese,etc (Excluding ultra violet treated cables)	• Armoured / Un-Armoured • PVC Sheathed	• High Conductivity Copper • Aluminium Electrical Grade • Electrical Grade PVC • XLPE	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1035	8544.4990	M.V.Cables	Copper or Aluminium conductor, XLPE Insulated cable. SingleCore & Multicore Range of Sizes: 16MM ² to 630MM ² Voltage Grade: upto 15000 volts IEC-502 IEC - 60502. Also as per others specification.e.g Europeans, American, Japanese,etc (Excluding ultra violet treated cables)	• Armoured / Un-Armoured • PVC Sheathed	• High Conductivity Copper • Aluminium Electrical Grade • Electrical Grade PVC • XLPE	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1036	8544.4990	Flexible Cables	Range of Sizes: 0.5MM ² to 630MM ² Voltage Grade: 300/500 Volts IEC-60227, BSS-6004, BSS-6500, IEC-227 Also as per others specification.e.g Europeans, American, Japanese etc (Excluding ultra violet treated cables)	• Armoured / Un-Armoured • PVC Sheathed	• High Conductivity Copper • Electrical Grade PVC	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1037	8544.4990	Control Cables PVC /XLPE Insulated	Range of Sizes: 5 Core to 61 Core Voltage Grade: upto 600/1000 Volts BSS-6346, IEC-502, IEC-60502. Also as per others specification.e.g Europeans, American, Japanese, etc (Excluding ultra violet treated cables)	• Armoured / Un-Armoured • PVC Sheathed	• High Conductivity Copper • Electrical Grade PVC • XLPE	Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700 Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1038	8544.4990	Electric Cables	Upto 1000 Volts Sizes: 0.005mm to 630mm (Excluding ultra violet treated cables as well as, Cables with following Grades/ Specifications; AESS XF, ARX, AVXS, AVSSH, CHFOS, FL-PE, HFSSF, SHE-J, SHSHYCJ, AEX F, AVSS XF, CAVS, CHFUS, HF, HF-ASAQ, HSHEQ, AVSSH (Shield wire), YAEXF, TW20#02000, SHE-JF, HEBX, PEST, AEX, AVSSXCSS2FX1, AVXF, AVXSYF, AVX, HSHEJ, ARXF, AVSXY, AVSSXCS, AVSX, AVSXF,OHFAS, CIVUS, IVSSH, IVSSH, ALVUS, ALVSS, PESXF/ PEXBS.	--	--	Universal Cables Industries Ltd . 61-C, Jami Commercial Street # 7, Phase 7, D.H.A., Karachi. Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1039	8544.4990	PVC wiring cable	From 1 mm ² to 1000 mm ² Voltage grade upto 1000 Volts BS 6004 (Excluding ultra violet treated cables as well as, Cables with following Grades/ Specifications; AESS XF, ARX, AVXS, AVSSHF, CHFOS, FL-PE, HFSSF, SHE-J, SHSHYCJ, AEX F, AVSS XF, CAVS, CHFUS, HF, HF-ASAQ, HSHEQ, AVSSHF (Shield wire), YAE XF, TW20#02000, SHE-JF, HEBX, PEST, AEX, AVSSXCSS2FX1, AVXF, AVXSYF, AVX, HSHEJ, ARXF, AVSXY, AVSSXCS, AVSX, AVSXF, AVSSX, SHE-HP, SHE- JB, VSSXTF, OHFAS, CIVUS, IVSSH, IVSSHF, ALVUS, ALVSS, PESXF/ PEXBS.	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1040	8544.4990	PVC Insulated Armoured Power Cable	From 16 mm ² to 1000 mm ² 600/1000 Volts BS 6346 (Excluding ultra violet treated cables)	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1041	8544.4990	Low smoke zero helogen Cable	From 1 mm ² to 1000 mm ² Voltage grade upto 1000 Volts BS 7846 (Excluding ultra violet treated cables as well as, Cables with following Grades/ Specifications; AESS XF, ARX, AVXS, AVSSHF, CHFOS, FL-PE, HFSSF, SHE-J, SHSHYCJ, AEX F, AVSS XF, CAVS, CHFUS, HF, HF-ASAQ, HSHEQ, AVSSHF (Shield wire), YAE XF, TW20#02000, SHE-JF, HEBX, PEST, AEX, AVSSXCSS2FX1, AVXF, AVXSYF, AVX, HSHEJ, ARXF, AVSXY, AVSSXCS, AVSX, AVSXF, AVSSX, SHE-HP, SHE- JB, VSSXTF, OHFAS, CIVUS, IVSSH, IVSSHF, ALVUS, ALVSS, PESXF/ PEXBS.	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700
1042	8544.4990	Flame retardant cables	From 1 mm ² to 1000 mm ² Voltage grade upto 1000 Volts BS 6387 (Excluding ultra violet treated as well as, Cables with following Grades/ Specifications; AESS XF, ARX, AVXS, AVSSHF, CHFOS, FL-PE, HFSSF, SHE-J, SHSHYCJ, AEX F, AVSS XF, CAVS, CHFUS, HF, HF-ASAQ, HSHEQ, AVSSHF (Shield wire), YAE XF, TW20#02000, SHE-JF, HEBX, PEST, AEX, AVSSXCSS2FX1, AVXF, AVXSYF, AVX, HSHEJ, ARXF, AVSXY, AVSSXCS, AVSX, AVSXF, AVSSX, SHE-HP, SHE- JB, VSSXTF, OHFAS, CIVUS, IVSSH, IVSSHF, ALVUS, ALVSS, PESXF/ PEXBS.	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1043	8544.4990	Air Field Lighting cable	FAAL-824 IEC 502 (Excluding ultra violet treated cables)	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1044	8544.6000	Underground XLPE Insulated Medium voltage & High voltage Cable	Upto 15 KV IEC 502 (Excluding ultra violet treated cables)	--	--	Newage Cables (Pvt) Ltd. Newage Mansion Mcleod Road, Lahore Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore Pakistan Cables Limited B-21, SITE, P.O. Box No.5050, Karachi - 75700
1045	8544.7000	Optical fibre cables	1.Direct Buried/Armoured from 1 to 288 fiber count standard loose tube design (both dry block and jelly filled construction) 2.Duct Type/un-Armoured from 1 to 288 fiber count standard loose tube design (both dry block and jelly filled construction) 3.All Dielectric Self Supporting Aerial cable (ADSS) Un-armoured from 1 to 288 fibre count standard loose tube design (both dry block and jelly filled construction) 4.Direct Buried un-(Excluding ultra violet treated cables)	The cable is manufactured to with stand the harsh environments of underground direct buried or in ducts and against aerial stresses with customer required Tensile Strengths	The cable is manufactured with several co-polymer coated and several other materials like PBT,Thixotropic	Frontier Cable Industries (Pvt) Ltd. Plot No. 13, Phase 4, Hattar Industrial Estate, District Haripur, NWFP Fast Cables Ltd. 192-Y Block, Commercial Area, Phase-III DHA, Lahore
1046	8544.7000	Optical fibre cables	(Single Mode and Multimode,) Buried Cable, Duct Cable, Aerial Cable, Central loose tube cable, Gc-652 complied and Gc-655 Complied. Patch Cord and pigtail (all connector type) Single mode and Multimode Patch Cord, Pigtail. (Excluding ultra violet treated cables)	Cable dia 12 to 18 mm.	--	LT Engineering & Trade Services (Pvt) Ltd. Lub Thatto, Hassanabdal-43730
1047	8546.2000	Insulators	Power Insulators	Tensile Strength of Insulators, 70Kn to 120KN	--	Emco Industries Limited 2nd Floor, Saudi Pak House, 14-Egerton Road, Lahore
1048	8546.9000	Insulators, electric, excluding glass and ceramic	95 BIL at 210 PMA Size dia.75x130mm =17373 N as per Din 1451, CEI-ICE273 Size dia. 84x175mm =11938 N as per Din 1451, CEI-ICE273	--	--	Schneider Electric Pakistan (Pvt) Ltd. (formerly AREVA T&D Pakistan (Pvt) Ltd) D-163, S.I.T.E Karachi
1049	8607.1900	Wheels, locomotives or rolling-stock	Traction Pinion and Gears 17T, 18,T, 19T, 24T, 60T, 92 Teeth	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1050	8705.3000	Fire Fighting Vehicles	Fire fighting vehicles, built on locally-available Chasis	--	--	Haseen Habib Corporation [Pvt] Limited 123/3 Quaid e Azam Industrial Estate, Lahore Colibrative Heavy Industries (Pvt) Limited. Chowk Saeed, Sagian Bypass Road, Shahdhara, Kot Abdul Malik, Lahore Meraj (Pvt) Limited Plot No. 11, Sector 15, Korangi Industrial Area, P.O. Box 3135 Karachi – 74900 Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi Automobile Corp. of Pakistan (Pvt) Ltd. 14, Dockyard Road, West Wharf, Karachi Pakistan Vehicle Engineering (Pvt) Ltd. D-134, S.I.T.E, Manghopir Road, Karachi
1051	8705.9000	Truck Mounted Drilling Rigs and accessories	Drilling Depth Capacity upto 2000 meter	--	--	Better Engineered Solutions (Pvt) Ltd. 102, Pacific Centre, F-8 Markaz Islamabad
1052	8705.9000	Vehicle Mounted Logging, Geophysical Instruments	Logging Depth Capacity upto 2000 meter	--	--	Better Engineered Solutions (Pvt) Ltd. 102, Pacific Centre, F-8 Markaz Islamabad
1053	8705.9000 8707.9090	Special Purpose Vehicle	Suction and jetting vehicles, Crash Tender, Rescue vehicle, recovery vehicles, wreckers, tow trucks, skip loaders, refuse compactor collector, street sweeper, beach sweeper, cranes, aerial ladder, snorkell, tank transporter, flatbed trailer, low bed trailer, Mobile workshop, mobile kitchen, mobile toilets etc.	--	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi Colibrative Heavy Industries (Pvt) Limited. Chowk Saeed, Sagian Bypass Road, Shahdhara, Kot Abdul Malik, Lahore Meraj (Pvt) Limited Plot No. 11, Sector 15, Korangi Industrial Area, P.O. Box 3135 Karachi – 74900 Automobile Corp. of Pakistan (Pvt) Ltd. 14, Dockyard Road, West Wharf, Karachi Pakistan Vehicle Engineering (Pvt) Ltd. D-134, S.I.T.E, Manghopir Road, Karachi Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi
1054	8716.9000	M.S. Shaft (Hot Rolled)	Range 25 to 175mm Length = 6 to 12 Mtr.	ASTM A-36, SR-24, AISI-1010, AISI-1017, A-36 and as per Pakistan Steel and Peoples Steel Mills Standard.	As Per Standard	Jabbar Steel Industry A-46/C S.I.T.E Near Pakistan Cable Karachi.
1055	8803.9000	Drop tanks and air dispensers	Drop tanks and air dispensers for aircraft	--	--	Heavy Mechanical Complex (Pvt) Ltd. Taxila
1056	8903.9100 8903.9200 8903.9300	Fiber Glass Boats	Ranging from 10 ft to 70 ft long (International Maritime Specs)	As per Standard	As per Standard	Business & Engineering Trends 100-A Wazir Ali Road, Upper Mall Opposite Lahore Gymkhana Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1057	8905.9000	Light-vessels	Range up to 4mm ~ 20 mm plate thickness	--	--	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
1058	8907.9000	Tanks, storage, floating	All type of floating storage tanks for oil feilds	Skid mounted storage tanks for fuels, eatable oils and water, round storage tankds with fixed proof for oil/ fuel, Round storage with floating roof for oil/ fuel.	--	Metal Engineering Works (Pvt) Ltd. S-4, S.I.T.E., Karachi
1059	9018.3110	Regular Syringes with needles	1-CC, 3-CC, 5-CC, 10-CC, 20-CC, 50-CC, 60-CC	E.O. Sterilized, 3-part, luer or slip lock, gasket, plunger, barrel. Precise calibrate graduation barrel mark scale printing. Needle with color hub.	Medical grade raw materials	Silver Surgical Complex (Pvt.) Ltd. Silver House, 11/E, Block-6, P.E.C.H.S., Karachi
1060	9018.3110	Insulin Syringes with needles	1-ml, 1-CC	E.O Sterlized single use 1-ml/CC insulin Unibody syringe with self destructive plunger, precise calibrate graduation barrel mark scale printing.	Medical grade raw materials	Silver Surgical Complex (Pvt.) Ltd. Silver House, 11/E, Block-6, P.E.C.H.S., Karachi
1061	9018.3120	Regular Syringes without needles	1-CC, 3-CC, 5-CC, 10-CC, 20-CC, 50-CC, 60-CC	E.O. Sterilized, 3-part, luer or slip lock, gasket, plunger, barrel. Precise calibrate graduation barrel mark scale printing. Needle with color hub.	Medical grade raw materials	Silver Surgical Complex (Pvt.) Ltd. Silver House, 11/E, Block-6, P.E.C.H.S., Karachi
1062	9018.3940	Intravenous Catheters / IV Cannula and parts	14-G, 16-G, 18-G, 20-G, 22-G, 24-G, 26-G	E.O. Gas sterilized Radio Opaque Catheter tube. Stainless Steel needle with sharp grinded tip for easy insertion and painless cannulization. Providing of a vent fitting preventing blood escape and medicine. (3-types, injection port and straighth).	Medical grade raw materials	Silver Surgical Complex (Pvt.) Ltd. Silver House, 11/E, Block-6, P.E.C.H.S., Karachi
1063	9018.3940	One way stopper/ 3- way stopper	Connector for I.V. Cannula/ catheter	E.O. Sterilized, Blister pack, connector.	Medical grade raw materials	Silver Surgical Complex (Pvt.) Ltd. Silver House, 11/E, Block-6, P.E.C.H.S., Karachi
1064	9018.4900	Scalers, dental	High grade	--	--	Acumen Surgical (Pvt) Ltd. Jinnah Town, Capital Road, Sialkot
1065	9028.0000	Gas Metering Skid	Senior/ Junior Orifice	-	-	Descon Engineering Limited DESCON Manufacturing Business Area 2 KM Defence road, Off: KM Multan Road, Chung Lahore – 53000
1066	9028.1000	Gas Meters, Parts thereof	Aluminum Body, Case & Covers of Gas Meter Gas Meter G 1.6 Gas Meter G 4, Gas Memter V3	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1067	9028.1000	Gas Meters	<p>i) <u>Gas Meters (G 1.6)</u></p> <ul style="list-style-type: none"> - Max low rate(capacity) = 2.5 cubic meter per hour, - Min low rate (capacity) = 0.016 cubic meter per hour - Max working pressure = 1 bar, - Temperature range = 20-60C <p>ii) <u>Gas Meters (G-4)</u></p> <ul style="list-style-type: none"> - Max low rate (capacity) = 6.0 cubic meter per hour, - Min low rate (capacity) = 1. cubic meter per hour, - Max working pressure = 1 bar, - Ttemperature range = 20-60C <p>iii) Housing of Gas Meters Gas Meters (G-1.6) & (G-4)</p>	--	--	Sui Southern Co. Ltd. (Meter Manufacturing Plant) ST-B/B-14, Sir Shah Muhammad Suleman Road Gulshan-e-Iqbal, Karachi
1068	9028.3000	Meters, electricity	Solid State & Pre Paid Energy Meter	--	--	Microtech Industries (Pvt) Ltd. Plot No. 2, Street No. 2, Attari Industrial Estate, 18 Km, Ferozpur Road, Lahore
1069	9028.3000	Meters, electricity	<p>1)- Single Phase AC Energy Meters, 10/40 Amps, 240V, 50 Hz Accuracy Class-2 housed in polycarbonate meter box with magnetic bearing.</p> <p>2)- 3-Phase, 4-wire, 3-Element, Electromechanical AC Energy Meters, 15(90) Amps, 230/400V, 50 Hz, Accuracy Class 2.0 Housed in polycarbonate Meter box with L.E.D.s with Magnetic Bearings.</p> <p>3)- Static 3-Phase, 4-wire, whole current energy meter with multi rate tariff (Class-1) in polycarbonate cover.</p>	--	--	Escorts Pakistan Ltd Escorts House, 26-Davis Road Lahore
1070	9028.3000	Meters, electricity	<p>Single Phase Meters 10 to 60 Amps</p> <p>3-Phase Meters 10 to 100 Amps</p> <p>CT & PT Operated 3 Pahse Meters 5 Amps</p>	--	--	KBK Electronics (Pvt) Ltd. (formerly SB Electronics Engineering & Control (Pvt) Ltd.) 86, Tariq Block, New Garden Town Lahore
1071	9028.3000	Meters, electricity	<p>Single Phase Electromechanical Meter, Single Phase Electronic Meter, Three Phase Electromechanical Meter; Three Phase Electronic Meter, MDI Meter (LT/HT), KVARH Meter (LT/HT), Three Phase CT Operated Electronic Meter, Prepaid Meter, Electronic Module for MDI</p>	--	--	Syed Bhais (Pvt) Ltd. 200 Ferozepur Road Lahore 54600

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1072	9028.3000	Meters, electricity	Single Phase Electromechanical Meter, Single Phase Electronic Meter, Three Phase Electromechanical Meter; Three Phase Electronic Meter, MDI Meter (LT/HT), KVARH Meter (LT/HT), Three Phase CT Operated Electronic Meter, Prepaid Meter, Electronic Module for MDI, Meter components i.e., Current Coil Assy, Potential Coil Assy, Rotor Assy, Brake Magnet Assy, Meter Base Assy, Meter Fame, Meter Cover Assy, Meter Security Box, Terminal Block Assy & Brass/Copper Terminals,	--	--	Syed Bhais (Pvt) Ltd. 200 Ferozepur Road Lahore 54600
1073	9028.3000	Meters, electricity	Single phase and three phase 220 volts, 400 volts and 50 c/s	--	--	Pakistan Elektron Limited (PEL) 14-Kilometer, Ferozepur Road Lahore
1074	9028.3000	Static Single Phase Energy Meters	For measurement of KWH and MDI (Maximum Demand Indicator) for domestic and commercial users with anti tampering features. (As per WAPDA's design)	--	--	Creative Electronics (Pvt) Ltd. 160/S, Q.I.E. Kot Lakhpat, Lahore
1075	9028.3000	Static Three Phase Whole Current Energy Meters	Three Phase 04 wire TOD (Time of Day) and MDI (Maximum Demand Indicator) multiple tariff meter, anti tampering, date and time recording features. (As per WAPDA's design)	--	--	Creative Electronics (Pvt) Ltd. 160/S, Q.I.E. Kot Lakhpat, Lahore
1076	9028.3000	3 Phase 4 wire LT (TOU) CT Operated Static Energy Meters	Static 3 phase 4 wire multi-rate meters for measurement of active & reactive energy/ load, with memory features to record events and transfer data. (As per WAPDA's design).	--	--	Creative Electronics (Pvt) Ltd. 160/S, Q.I.E. Kot Lakhpat, Lahore
1077	9028.3000	3 Phase 4 wire HT (TOU) CT & PT Operated Static Energy Meters	For measurement of active, reactive energy, Indicating Maximum Demand/ load profile with specific characteristics to store and transfer data. (As per WAPDA's design).	--	--	Creative Electronics (Pvt) Ltd. 160/S, Q.I.E. Kot Lakhpat, Lahore
1078	9032.1090	Gas Controller Thermostat	Temperature Range 30 degree C - 70 Degree C, Differential < 5 degree C, Current 16 Amps Max, Material Brass. Sensor Length 7", 11", 18". Temperature Selection 40 degree C to 80 degree C, Inlet and Pilot Filters, Thermoelectric flame failure safety device. Brass body, inlet 1/2" NPT, Outlet 3/4" 18 TPi, Max inlet Gas Pressure 5" of water column.	--	--	Tesla Industries Pvt. Ltd. Plot No. 81-F, St. 6, I-10/3 Islamabad
1079	9032.8990	Stabilizers, voltage	Smart Line Conditioners 1 phase: 2 to 10KVA (with or without Isolation Transformer) 3 phase: upto 30KVA (non-isolated transformer)	Specially designed for Pakistani power conditions, and most suitable for IT & Telecom industry.	--	Saltec Powerlink 18C/5, Khyabane Tanzeem DHA 5 , Karachi
1080	9301.1000	Mortars, military	Heavy Mortar 120 mm, Light Mortar 81 mm, Mortar 60 mm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
1081	9301.2000	Launchers, rocket	Under Barrel Grenade Launcher GL-40	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1082	9301.2000	Launchers, rocket	Rocket Propelled Grenade Launcher RPG-7	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
1083	9301.2000	Tear Gas Gun	37/38mm Tear Gas Gun (Shell Grenade Launcher)	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1084	9301.2000	Grenade Launcher	40mm Shot Range Grenade Launcher (SRGL) / 40mm Hand Held Grenade Launcher (HHGL)	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1085	9301.9029	Rifles, military	Recoilless Rifle 106 mm	--	--	Pakistan Machine Tool Factory (Pvt) Limited PMTF Road, Off National Highway, Landhi, Karachi-75030
1086	9303.2011	Gauge Pump Action Shotgun	12 Gauge Pump Action Shotgun "Shooter"	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1087	9303.2019	Shotgun	12 Gauge Single Barrel Shotgun	--	--	Daudsons Armour (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1088	9303.2019	Rifle	.22 Rifle	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1089	9303.2019	Single Pistol	Pistol Pyrotechnic (Single Pistol)	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1090	9303.2020	Double Barrel Shotgun	12 Gauge Double Barrel Shotgun	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1091	9306.2900	Mortar Training Bomb	60mm, 81mm, 120mm Mortar Training Bomb	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1092	9306.9000	Bombs (munition)	MK82,MK83,MK84 Low Drag General Purpose.	--	--	Daudsons Armoury (Pvt) Ltd. Industrial Estate Kohat Road , Peshawar
1093	9402.9020	Hospital beds with mechanical fittings	Patient Motorized / Electrical Beds for ICU and CCU etc.	--	--	G. Med Equipment 11A Hurbance Pura Road, Near Railway Crossing P. O. Tajpura Lahore Cantt. Strongman Medifur Systems (Pvt) Ltd. Plot No. 166 Street No. 9, I-10/3 Industrial Area, Islamabad.
1094	9403.1000	Metal Shelvings	Mobile Shelving and General Office Shelving etc.etc.	--	--	Gujrat Steel (Pvt) Ltd. 183 A.M,Shahrah-e-Iraq, Saddar, Karachi
1095	9403.7000	Plastic Furniture	Children's outdoor play areas, different varieties to chose from and made to order	--	--	Green Earth Recycling Pakistan 208/A Street # 5, Cavalry Grounds, Cantt. Lahore

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1096	9405.1090	Light Emitting Diodes (LED) Lighting Products (SMD, COB)	All types of LED Bulbs and Lamps (all types); LED Panel Lights (All sizes); LED 4 Channel, Linear and Tube Lights (all sizes); LED Down Lights; LED Street Lights; Flood and Spot Lights; Sports Stadium Lights; Canopy Lights, LED Strip and Rope Lights; LED Track Lights, LED X-Ray Illuminators (1U, 2U, 3U, 4U) etc. [AC / DC] (As per IEC standards)	--	--	National Institute of Electronics Ministry of Science & Technology H. No. 17, Sector H-9, P.O. Box 1406, Islamabad Creative Electronics & Automation Plot No. 142, Industrial Triangle Kahuta Road, Islamabad Micro Pak (Pvt) Ltd. Plot No. 218, St. No. 7, I-9/2, Islamabad Comcept Private Limited Plot No. 291, Street No. 03, Sector I-9/3, Islamabad
1097	9406.0010 9406.0020 9406.0030 9406.0040 9406.0090	Pre-fabricated Buildings	Built up with H.R. Sheets, G.I. Sheets, Zinalume Sheet, High Tensile Nuts & bolts and Fiber glass Mat Insulation. Beams & Columns = Yield Strength 34.5 kN/cm ³ Galvanized Steel = Yield Strength 34.0 kN/cm ³ Zinalume Steel = Yield Strength 34.5 kN/cm ³ High Strength Bolts = Tensile Strength 83.0 kN/cm ³	Beams & Columns = ASTM A 572 M Gr 345 type 1 Galvanized Steel = ASTM A 653 M SS GR 340 Class 1 Zinalume Steel = ASTM A 792 M Grade 345 B High Strength Bolts = ASTM A 325 M	--	Izhar Steel Izhar House, 35-Tipu Block, New Garden Town, Lahore Pakistan Insulations (Pvt.) Ltd. 107 Business Avenue PECHS BLock-6, Karachi
1098	9406.0040	Insulated Panels	Polyurethane Panels (PU), Polyisocyanurate Panels (PIR), Rock Wool Panels	25mm to 300mm, upto 16mtr length	--	Pakistan Insulations Pvt. Ltd. 107 Business Avenue PECHS BLock-6, Karachi Foster Refrigerators (Pvt) Ltd. 7-Main Industrial Area, Kot Lakhpat, Lahore Izhar Steel Izhar House, 35-Tipu Block, New Garden Town, Lahore
1099	9608.1000	Ball Point Pens	All Types	--	--	Shahsons (Pvt) Ltd. D-88, S.I.T.E., Manghopir Road, Karachi. Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
1100	9608.2000	Pens, felt-tipped	Writing, colouring and marking pens, all types (felt tipped with and without metal / plastic jackets).	--	--	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
1101	9608.2000	Markers, felt-tipped	Markers all types (Permanent, Highlighters, White Boards, Refillable / Sealed)	--	--	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
1102	9608.3000	Pen, fountain	Fountain pens, all types	--	--	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700

S. No.	PCT Head	Products	Specifications	Physical Properties	Chemical Properties	Company
1103	9609.1000	Pencils	All Types	--	--	Shahsons (Pvt) Ltd. D-88, S.I.T.E., Manghopir Road, Karachi.
1104	9609.9000	Crayon	Crayon	Candle like solid slugs of wax	Paraffin Wax Organic Pigments China clay	Indus Pencil Industries B-54, Manghopir Road SITE Karachi
1105	9612.2000	Ink-pads	Stamp Pads	--	--	Dollar Industries (Pvt) Ltd. D-85, SITE, Karachi – 75700
1106	9931.0000	Ambu Lifter	Upto 22ft working height from ground suitable for aircraft upto Boeing 777	--	--	Bilal Engineering Company G.T Road Opp. Rescue 1122 Office Pindi Bypass, Gujranwala

Note

- 1). The Annexures (I & II) mentioned against respective entries of M/s Peoples Steel Mills Ltd. form the integral Part of the CGO.
- 2). The above listed machinery/ equipment/ materials, etc. include their substitutes, the concessionary import of which would also not be allowed.
- 3). Import of Proprietary spares whose parent equipment is not manufactured locally shall be cleared as per terms of SRO 678(I)/2004 subject to the following:
 - i). Proof of concessionary import (Bill of entry or any other appropriate commercial document) of the parent equipment not manufactured locally.
 - ii). Undertaking by the importer that the imported items are proprietary spares of the equipment mentioned at (i) above and are certified as such either by the manufacturer (OEM) of integral sub-equipment of the parent equipment, as the case may be.
- 4). The HS/ PCT Code used in column 2 above are purely for reference purpose.

Steel Grades manufactured at PSM **Annexure-I**

Annexure-I

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
1	070M20	Lower	0.16	0.10	0.50	0.03										
		Upper	0.24	0.40	0.90			0.3	0.15	0.4						
2	080M40	Lower	0.36	0.10	0.60											
		Upper	0.44	0.40	1.00	0.05	0.05	0.3	0.15	0.4						
3	1.1545	Lower	1.00	0.10	0.10											
		Upper	1.10	0.25	0.25	0.02	0.02									
4	1008	Lower		0.50	0.25											
		Upper	0.10	0.30	0.60	0.04	0.04									
5	1009	Lower		0.15	0.08											
		Upper	0.15	0.35	0.60	0.03	####									
6	1010	Lower	0.08	0.15	0.30											
		Upper	0.13	0.35	0.60	0.04	0.05									
7	1015	Lower	0.12	0.15	0.30	0.04	####									
		Upper	0.18	0.35	0.60											
8	1020	Lower	0.18	0.15	0.30											
		Upper	0.23	0.35	0.60	0.04	0.05									
9	1024	Lower	0.18	0.15	1.30	0.04	0.05									
		Upper	0.25	0.35	1.65											
10	1025	Lower	0.22	0.10	0.30	0.03	0.05									
		Upper	0.28		0.60											
11	1030	Lower	0.28	0.15	0.60	0.03	0.05									
		Upper	0.34	0.35	0.90											
12	1032	Lower	0.30	0.10	0.50	0.03	0.03									
		Upper	0.35	0.35	0.70											
13	1035	Lower	0.31	0.15	0.60											
		Upper	0.38	0.35	0.90	0.03	0.04									
14	1040	Lower	0.37	0.15	0.60											
		Upper	0.44	0.35	0.90	0.04	0.05									
15	1045	Lower	0.43	0.15	0.60											
		Upper	0.50	0.35	0.90	0.04	0.05									
16	1046	Lower	0.40	0.40	0.75	0.04	0.05									
		Upper	0.50		1.20											
17	1048	Lower	0.43		1.05											
		Upper	0.52	0.20	1.40	0.04	0.05									
18	1050	Lower	0.48	0.15	0.60	0.03	0.05									
		Upper	0.55	0.35	0.90											
19	1065	Lower	0.60	0.15	0.60	0.04	0.05									
		Upper	0.70	0.35	0.90											
20	1080 (Steel-80)	Lower	0.77	0.17	0.50											
		Upper	0.85	0.37	0.80	0.035	0.04	0.25		0.25	0.2					
21	1141	Lower	0.37	0.15	1.35	0.04	0.08									
		Upper	0.45	0.30	1.65		0.13									
22	11SMn37	Lower														
		Upper														
23	1513	Lower	0.10		1.10											
		Upper	0.16	0.25	1.40	0.04	0.05									

[illegible]

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
		Upper	0.22	0.30	0.65											
48	BS-2858	Lower	0.10	0.03	0.49	0.04	0.03									
		Upper														
49	BW2	Lower	0.95	0.30	0.35	0.03	0.03	0.15	0.1	0.2	0.2		0.15			
		Upper	1.10										0.35			
50	C45K	Lower	0.42		0.50											
		Upper	0.50	0.40	0.80	0.045	0.05	0.4	0.1	0.4						
51	CFS-6	Lower	0.30	0.35	0.50	0.05	0.05									
		Upper	0.40		0.90											
52	EN43B	Lower	0.45	0.10	0.70	0.05	0.05									
		Upper	0.50	0.40	0.90											
53	EN8	Lower	0.36	0.10	0.60	0.01	0.03									
		Upper	0.44	0.40	1.00											
54	Ex-Low Carbon	Lower														
		Upper														
55	G-43A (BS 4360-1986)	Lower														
		Upper	0.25	0.50	1.60	0.05	0.05									
56	HAFFAZ 1010	Lower														
		Upper														
57	Haffaz-1020	Lower	0.17	0.10	0.40											
		Upper	0.24	0.25	0.65	0.025	0.03									
58	HMC-1030	Lower	0.28	0.05	0.50							0.03				
		Upper	0.37	0.17	0.80	0.04	0.05									
59	HR355	Lower														
		Upper	0.22	0.55	1.60	0.05	0.05									
60	HSAPH55	Lower	0.15	0.30	1.30	0.04	0.04									
		Upper	0.18	0.40	1.50											
61	NEAGA - Steel	Lower	0.40	0.10	0.60		0.20									
		Upper	0.50	0.35	0.90	0.06	0.25									
62	QST-52-3-Cu 3	Lower	0.20	0.55	1.60	0.04	0.04				0.25					
		Upper									0.35					
63	RSt-37-2 Cu3	Lower	0.17	0.30	1.40	0.05	0.05				0.25					
		Upper									0.4					
64	S15A	Lower	0.12	0.10	0.25	0.03	0.04			0.2	0.2	0.03				
		Upper	0.18		0.50							0.08				
65	S20A	Lower	0.16		0.25											
		Upper	0.22	0.10	0.50	0.03	0.04									
66	S43C	Lower	0.40	0.15	0.60											
		Upper	0.46	0.35	0.90	0.03	0.04	0.2		0.2	0.2					
67	S-45C	Lower	0.42	0.15	0.60	0.03	0.04	0.2		0.2	0.3					
		Upper	0.48	0.35	0.90											
68	S50C	Lower	0.47	0.15	0.60	0.03	0.04	0.2		0.2	0.3					
		Upper	0.53	0.35	0.90											
69	SAMZA GRADE 1	Lower	1.20	0.15	0.25	0.04	0.04									
		Upper	1.40	0.35	0.50											
70	SSA-21	Lower	0.45	0.10	0.70											
		Upper	0.55	0.35	1.10	0.05	0.05	0.3	0.15	0.5	0.3					
71	ST10	Lower	0.07	0.17	0.17							0.015				

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
		Upper	0.14	0.37	0.37	0.035	0.04	0.15		0.3	0.2	0.035				
72	St12Cu3	Lower	0.10	0.10	0.20	0.05	0.05				0.25					
		Upper			0.45						0.35					
73	ST20	Lower	0.17	0.17	0.35	0.04	0.04	0.25		0.25						
		Upper	0.24	0.37	0.65											
74	St4	Lower										0.02				
		Upper	0.10	0.05	0.50	0.03	0.03	0.15	0.1	0.2	0.2	0.1				
75	SWRY-11	Lower			0.35											
		Upper	0.09	0.03	0.65	0.02	0.02				0.2					
76	T-1 PRS	Lower	0.03	0.15	0.80	0.06	0.06									
		Upper	0.42													
77	T12A	Lower	1.15	0.15	0.15			0.2								
		Upper	1.24	0.30	0.30	0.03	0.02			0.15	0.25					
78	Tech Lok C-3	Lower	0.14	0.12	0.40											
		Upper	0.22	0.30	0.65	0.045	0.06									
79	V930	Lower	0.27	0.15	1.20											
		Upper	0.34	0.40	1.50	0.035	0.04	0.3								
80	1.2060	Lower	1.00	0.20				1.2								
		Upper	1.10	0.40	0.20	0.03	0.03	1.5								
81	1.2714	Lower	0.50	0.10	0.65	0.03	0.03	1	0.45	1.5			0.07			
		Upper	0.60	0.40	0.95			1.2	0.55	1.8			0.12			
82	1.2767	Lower	0.40	0.10	0.15	0.03	0.03	1.2	0.15	3.8						
		Upper	0.50	0.40	0.45			1.5	0.35	4.3						
83	1.2842	Lower	0.85	0.10	1.90	0.03	0.03	0.2					0.05			
		Upper	0.95	0.40	2.10			0.5					0.15			
84	1.8159	Lower	0.47	0.40	0.70	0.04	0.04	0.9					0.1			
		Upper	0.55		1.10			1.2					0.25			
85	12Cr2NiMoV2	Lower	0.09	0.17	0.30			1.9	0.3	0.8			0.18			
		Upper	0.16	0.37	0.70	0.025	0.03	2.4	0.45	1.2			0.28			
86	13CrMo44 with Cr	Lower	0.08	0.35	0.40	0.03	0.03	0.7	0.4		0.3					
		Upper	0.18		1.00			1.15	0.6							
87	13CrMo44 with out Cr	Lower	0.08	0.35	0.40	0.03	0.03		0.4		0.3					
		Upper	0.18		1.00				0.6							
88	14NiCr14	Lower	0.10		0.40			0.6		3						
		Upper	0.18	0.40	0.70	0.035	0.04	0.9		3.5						
89	15CDV6	Lower	0.12	0.20	0.80	0.02	0.02	1.25					0.2			
		Upper	0.18		1.20			1.5					0.3			
90	16MnCr5	Lower	0.14		1.00			0.8								
		Upper	0.19	0.40	1.30	0.035	0.04	1.1								
91	19CN5	Lower	0.16		0.70			0.8		0.8						
		Upper	0.21	0.35	1.10	0.035	0.04	1.2	0.1	1.2						
92	20CrNi4VA	Lower	0.17	0.17	0.25			0.7		3.75			0.15			
		Upper	0.24	0.37	0.55	0.035	0.04	1.1		4.25	0.2		0.3			
93	20MnCr5	Lower	0.17	0.15	1.10			1								
		Upper	0.22	0.40	1.40	0.035	0.04	1.3								
94	25 CrSiNiWV2	Lower	0.22	0.17	0.30			0.7		0.8			0.18	0.5		
		Upper	0.27	0.37	0.70	0.035	0.04	1.1		1.2			0.28	1		

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
95	28Cr3NiSiMoWVA	Lower	0.28													
		Upper														
96	30CrMnSiA	Lower	0.28	0.90	0.80	0.03	0.03	0.8		0.3	0.25					
		Upper	0.34	1.20	1.10			1.1								
97	30CrMnSiNi2	Lower	0.26	0.90	1.00			0.9		1.4						
		Upper	0.33	1.20	1.30			1.2		1.8						
98	30CrMoV9	Lower	0.26		0.40			2.3	0.15				0.1			
		Upper	0.34	0.40	0.70	0.035	0.03	2.7	0.25				0.2			
99	30-CrNi-3-AYB-481-80	Lower	0.27	0.17	0.30	0.04	0.03	0.6		2.75						
		Upper	0.35	0.37	0.60			0.9		3.25						
100	30CrNiMo8	Lower	0.26		0.30			1.8	0.3	1.8						
		Upper	0.34	0.40	0.60	0.035	0.03	2.2	0.5	2.2						
101	30-SiMnMoVAYB-481-80	Lower	0.27	0.40	1.60	0.04	0.03		0.4				0.15			
		Upper	0.33	0.60	1.85				0.6				0.25			
102	3120	Lower	0.17	0.20	0.40			0.55		1.1						
		Upper	0.22	0.35	0.80	0.04	0.04	0.75		1.4						
103	32CrMoV1210	Lower	0.29	0.50	0.70	0.03	0.03	2.8					0.25			
		Upper	0.36					3.2					0.35			
104	35CM4	Lower	0.33		0.80			0.9								
		Upper	0.39	0.40	1.10	0.035	0.03	1.2								
105	35Cr	Lower	0.32	0.17	0.50			0.8								
		Upper	0.39	0.37	0.80	0.035	0.04	1.1		0.3	0.3					
106	35CrMnSiA	Lower	0.32	1.10	0.80			1.1								
		Upper	0.39	1.40	1.10	0.025	0.03	1.4		0.3	0.25					
107	38CrSi	Lower	0.35	1.00	0.30			1.3								
		Upper	0.43	1.30	0.60	0.035	0.04	1.6		0.3	0.3					
108	40CrNi	Lower	0.37	0.17	0.50			0.45		1						
		Upper	0.44	0.37	0.80	0.035	0.04	0.75		1.4	0.3					
109	4130	Lower	0.28	0.15	0.40			0.8	0.15							
		Upper	0.33	0.35	0.60	0.035	0.04	1.1	0.25							
110	4135	Lower	0.32	0.15	0.65			0.8	0.15							
		Upper	0.39	0.35	0.95	0.035	0.04	1.15	0.25							
111	4140	Lower	0.38	0.15	0.75			0.8	0.15							
		Upper	0.43	0.35	1.00	0.035	0.04	1.1	0.25							
112	41Cr4	Lower	0.38		0.60			0.9								
		Upper	0.45	0.40	0.90	0.035	0.3	1.2								
113	42MnV7	Lower	0.38	0.15	1.60								0.07			
		Upper	0.45	0.35	1.90	0.035	0.04						0.12			
114	4340	Lower	0.38	0.15	0.60			0.7	0.2	1.65	0.35					
		Upper	0.43	0.35	0.80	0.03	0.04	0.9	0.3	2						
115	50CrMo4	Lower	0.46	0.15	0.50			0.9	0.15							
		Upper	0.54	0.35	0.80	0.035	0.04	1.2	0.25							
116	5120	Lower	0.17	0.15	0.70			0.7								

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
		Upper	0.22	0.35	0.90	0.035	0.04	0.9								
117	5135	Lower	0.33	0.15	0.60			0.8								
		Upper	0.38	0.35	0.80	0.035	0.04	1.05								
118	5140	Lower	0.38	0.15	0.70			0.7								
		Upper	0.43	0.35	0.90	0.035	0.04	0.9								
119	5145	Lower	0.43	0.15	0.70			0.7								
		Upper	0.48	0.30	0.90	0.035	0.04	0.9								
120	5145H	Lower														
		Upper														
121	58SiMn	Lower	0.55	1.00	0.90											
		Upper	0.63	1.50	1.30	0.035	0.04	0.3		0.3	0.2					
122	5CrMo16	Lower	0.07	0.05	0.05	0.03	0.03	3.5	0.4							
		Upper		0.25	0.25			4.5	0.6							
123	6F3	Lower														
		Upper	0.55	0.85	0.60	0.025	0.03	1	0.75	1.8			1			
124	817M40	Lower	0.36	0.10	0.45	0.04	0.02	1	0.2	1.3						
		Upper	0.44	0.35	0.70		0.04	1.4	0.35	1.7						
125	826M40	Lower	0.36	0.10	0.45	0.04	0.02	0.5	0.45	2.3						
		Upper	0.44	0.35	0.70		0.04	0.8	0.65	2.8						
126	832M13	Lower	0.10	0.10	0.35	0.04	0.04	0.7	0.1	3						
		Upper	0.16	0.35	0.60			1	0.25	3.75						
127	8620	Lower	0.18	0.15	0.70			0.4	0.15	0.4	0.35					
		Upper	0.23	0.35	0.90	0.03	0.04	0.6	0.25	0.7						
128	8620H	Lower	0.17	0.15	0.60			0.35	0.15	0.35	0.35					
		Upper	0.23	0.35	0.95	0.04	0.03	0.65	0.25	0.75						
129	8622H	Lower	0.19	0.15	0.60			0.35	0.15	0.35	0.35					
		Upper	0.25	0.35	0.95	0.04	0.03	0.65	0.25	0.75						
130	8640	Lower	0.38	0.15	0.75			0.4	0.15	0.4						
		Upper	0.43	0.35	1.00	0.035	0.04	0.6	0.25	0.7						
131	9310	Lower	0.08	0.15	0.45			1	0.08	3						
		Upper	0.13	0.35	0.65	0.025	0.03	1.4	0.15	3.5						
132	A572	Lower	0.22	0.20	1.20	0.04	0.05						0.1			
		Upper	0.23	0.35	1.35								0.2			
133	A572 Grade 50	Lower			0.80								0.01			
		Upper	0.23	0.40	1.35	0.04	0.05						0.15			
134	AGS-180W6	Lower	1.60	0.30	0.35	0.03	0.03	0.25						5.7		
		Upper	2.00											6.2		
135	API Grade X-70	Lower														
		Upper	0.26	0.30	1.65	0.03										0.06
136	Armour Plate	Lower	0.26	0.20	1.00	0.03	0.03	1	0.1							
		Upper	0.32	0.50	1.40			1.4	0.4							
137	ARMOX 500T	Lower														
		Upper	0.30		1.20			1	0.7	1.3						
138	AWC-GRADE-1	Lower	0.42	0.15	0.60	0.03	0.03	0.35								
		Upper	0.48	0.35	0.90			0.5								
139	CLARM HBR	Lower	0.28	0.10	0.10			1.3	0.3	3.2			0.16			
		Upper	0.33	0.30	0.40	0.007	0.01	1.7	0.5	3.8	0.15	0.02	0.25			
140	D406A	Lower	0.27	1.40	0.70			1	0.4				0.08			
		Upper	0.33	1.70	1.00	0.013	0.01	1.3	0.55		0.25		0.15			

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
141	E116	Lower														
		Upper														
142	E920	Lower														
		Upper														
143	EN16	Lower	0.32	0.10	1.30				0.22							
		Upper	0.40	0.40	1.70	0.035	0.04		0.32							
144	EN16C	Lower	0.35	0.10	1.30				0.22							
		Upper	0.40	0.35	1.70	0.035	0.04		0.32							
145	EN16C (Mod)	Lower	0.35	0.10	1.30				0.15							
		Upper	0.40	0.35	1.70	0.035	0.04		0.25							
146	EN18	Lower	0.36	0.10	0.60			0.9								
		Upper	0.44	0.35	0.90	0.035	0.04	1.2								
147	EN18B	Lower	0.30	0.10	0.65			0.85								
		Upper	0.35	0.35	0.80	0.05	0.05	1.15								
148	EN18C	Lower	0.34	0.10	0.60			0.9								
		Upper	0.39	0.35	0.80	0.035	0.04	1.2								
149	EN24	Lower	0.36	0.10	0.45	0.04	0.04	1	0.2	1.3						
		Upper	0.44	0.40	0.70			1.4	0.35	1.7						
150	EN28	Lower	0.25	0.10	0.70	0.02	0.02	0.75	0.2	3						
		Upper	0.40	0.35				1.5	0.65	4.5						
151	EN31	Lower	0.90	0.10	0.30	0.04	0.04	1.2		0.3	0.3					
		Upper	1.20	0.35	0.60			1.6								
152	F550	Lower	0.48	0.20	0.90			0.9					0.1			
		Upper	0.54	0.35	1.10	0.035	0.04	1.2			0.35		0.15			
153	G4335V	Lower	0.30	0.10	0.40			0.7	0.46	2			0.1			
		Upper	0.40	0.35	0.70	0.01	0.01	1.2	0.6	3.3	0.2	0.015	0.25			
154	HLES-80	Lower								4.07			0.02			
		Upper	0.15	0.25	0.50	0.015	0.01	0.5	0.4	4.8	0.25	0.03	0.09			
155	HMC-Grade-1	Lower	0.28	1.40	0.70	0.01	0.01	1	0.4	0.25			0.08			
		Upper	0.33	1.76	1.00			1.3	0.55				0.15			
156	HRA-PL-01	Lower	0.25	0.15	0.30			1.3	0.3							
		Upper	0.31	0.35	0.80			1.7	0.5							
157	Huffaz-1.5639	Lower		0.18	0.31					3.18						
		Upper	0.19	0.37	0.64	0.025	0.03			3.82						
158	Index-5044	Lower	0.42	0.15	0.60			0.35								
		Upper	0.48	0.35	0.90	0.035	0.04	0.5								
159	PSM-2	Lower	0.25	0.20	0.40			1.5	0.25							
		Upper	0.40	0.40	0.60	0.035	0.04	2	0.35							
160	PSM-3	Lower	0.27	0.20	0.30			0.7	0.3	2.8						
		Upper	0.33	0.40	0.60	0.02	0.02	1.1	0.5	3.5						
161	R100	Lower	0.95	0.25	0.25			1.4								
		Upper	1.05	0.35	0.40	0.025	0.02	1.65			0.3					
162	SA508 Class-3	Lower	0.16	0.15	1.20	0.02	0.02	0.2	0.45	0.6		0.04	0.02			
		Upper	0.22	0.37	1.50				0.6	1						
163	SCM415	Lower	0.13	0.15	0.60			0.9	0.15			0.02				
		Upper	0.18	0.35	0.85	0.03	0.03	1.2	0.3	0.25	0.3	0.03				
164	SCM-420	Lower	0.18	0.15	0.60	0.03	0.03	0.9	0.15	0.25	0.3					
		Upper	0.23	0.35	0.85			1.2	0.3							
165	SCM435	Lower	0.33	0.15	0.60			0.9	0.15							

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
		Upper	0.38	0.35	0.85	0.03	0.03	1.2	0.3	0.25	0.3					
166	ST- 40XHM	Lower	0.37	0.17	0.50			0.6	0.15	0.7						
		Upper	0.44	0.37	0.80	0.025	0.03	0.9	0.25	1.1						
167	ST- 45X	Lower	0.41	0.17	0.50			0.8								
		Upper	0.49	0.37	0.80	0.025	0.03	1.1								
168	ST-52	Lower														
		Upper	0.22	0.55	1.60	0.05	0.05									
169	ST-52-3	Lower		0.15									0.04			
		Upper	0.20	0.40	1.50	0.03	0.04						0.08			
170	St52-3Cu3	Lower														
		Upper														
171	SUP10	Lower	0.47	0.15	0.65	0.04	0.04	0.8			0.3		0.15			
		Upper	0.55	0.35	0.95			1.1					0.25			
172	SUP6	Lower	0.56	1.50	0.70											
		Upper	0.64	1.80	1.00	0.035	0.04				0.3					
173	SUP7	Lower	0.56	1.80	0.70						0.3					
		Upper	0.64	2.20	1.00	0.035	0.04									
174	SUP9	Lower	0.52	0.15	0.65			0.65			0.3					
		Upper	0.60	0.35	0.95	0.035	0.04	0.95								
175	SUP9 (Toyota)	Lower	0.50	0.15	0.65	0.04	0.04	0.65								
		Upper	0.60	0.35	0.85			0.95								
176	SWRH-82B	Lower														
		Upper														
177	V121	Lower	0.31	0.20	0.50			0.8	0.3	2.8						
		Upper	0.37	0.35	0.80	0.01	0.02	1.1	0.4	3.1						
178	V500	Lower	0.38	0.20	0.60			0.9								
		Upper	0.44	0.35	0.80	0.025	0.03	1.2			0.35					
179	W500	Lower	0.50	0.10	0.65			1	0.45	1.5			0.07			
		Upper	0.60	0.40	0.95	0.03	0.03	1.2	0.55	1.8			0.12			
180	0Cr21Ni5Ti	Lower	0.08	0.80	0.80	0.03	0.03	20		4.8						0.3
		Upper						22		5.8						0.6
181	1.2344	Lower	0.37	0.90	0.30			4.8	1.2				0.9			
		Upper	0.43	1.20	0.50	0.03		5.5	1.5				1.1			
182	1.2367	Lower	0.35	0.30	0.30	0.04	0.04	4.7	2.7				0.4			
		Upper	0.40	0.50	0.60			5.2	3.3				0.7			
183	1.2436	Lower	2.00	0.10	0.15	0.03	0.03	11						0.6		
		Upper	2.25	0.40	0.45			12						0.8		
184	1.3202	Lower	1.30					3.8	0.7				3.5	11.5	4.5	
		Upper	1.45	0.45	0.40	0.03	0.03	4.5	1				4	12.5	5	
185	1.3255	Lower	0.75					3.8	0.5				1.4	17.5	4.5	
		Upper	0.83	0.45	0.40	0.03	0.03	4.5	0.8				1.7	18.5	5	
186	304	Lower					0.03	18		8						
		Upper	0.08	1.00	2.00	0.045	0.03	20		10.5						
187	304L	Lower						18		8						
		Upper	0.03	1.00	2.00	0.045	0.03	20		12	0.35					
188	316	Lower						16	2	10						
		Upper	0.08	1.00	2.00	0.045	0.03	18	3	14						
189	316L	Lower						16	2	10						
		Upper	0.03	1.00	2.00	0.045	0.03	18	3	14						

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
190	321	Lower						17		9						
		Upper	0.08	1.00	2.00	0.045	0.03	19		12						
191	410	Lower						11.5								
		Upper	0.15	1.00	1.00	0.04	0.03	13.5								
192	416	Lower														
		Upper														
193	420	Lower		1.00	1.00	0.04	0.03	12								
		Upper	0.15					14								
194	431	Lower	0.20	1.00	1.00	0.04	0.03	15		1.25						
		Upper						17		2.5						
195	440C	Lower	0.95	1.00	1.00	0.04	0.03	16	0.75							
		Upper	1.20					18								
196	4Cr13	Lower	0.36					12								
		Upper	0.45	0.60	0.80	0.035	0.03	14		0.6						
197	630	Lower						15		3	3					
		Upper	0.07	1.00	1.00	0.04	0.03	17.5		5	5					
198	A105	Lower														
		Upper														
199	A200	Lower		0.35	1.20			16.5	2	11						
		Upper	0.03	0.60	1.50	0.04	0.03	17.5	2.3	12	0.35					
200	A604	Lower														
		Upper														
201	A750	Lower														
		Upper														
202	BS 150M19	Lower	0.15	0.15	1.30											
		Upper	0.23	0.30	1.70	0.05	0.05									
203	BS 970 Pt-1	Lower			0.90		0.20									
		Upper	0.15	0.40	1.30	0.07	0.30									
204	D2	Lower														
		Upper														
205	H13	Lower	0.30	0.80	0.20	0.03	0.03	4.75	1.25				0.8			
		Upper	0.40	1.20	0.40			5.5	1.75				1.2			
206	H532	Lower		1.20	1.10			24.5		19						
		Upper	0.08	1.35	1.30	0.03	0.03	26		20.5						
207	K100	Lower	1.90	0.10	0.15			11								
		Upper	2.20	0.40	0.45	0.025	0.03	12			0.25					
208	K105	Lower	1.55	0.25	0.20			11	0.5				0.1	0.4		
		Upper	1.75	0.40	0.40	0.03	0.03	12	0.7				0.5	0.6		
209	K107	Lower														
		Upper														
210	K110	Lower	1.50	0.10	0.15			11	0.6				0.9			
		Upper	1.60	0.40	0.45	0.03	0.03	12	0.8				1.1			
211	N100	Lower														
		Upper														
212	N310	Lower														
		Upper														
213	N685	Lower														
		Upper														
214	SKT/AG-420	Lower	0.16					9								

S.No.	Steel Grade	Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	V	W	Co	Ti
		Upper	0.20	1.00	1.00	0.04	0.03	10		0.6						
215	SUS-410	Lower	0.15	1.00	1.00	0.04	0.03	11.5		0.6						
		Upper						13.5								
216	SUS-420-J1	Lower	0.16	1.00	1.00	0.04	0.03	12		0.6						
		Upper	0.25					14								
217	SUS-420-J2	Lower	0.26	1.00	1.00	0.04	0.03	12		0.6						
		Upper	0.40					14								
218	SUS430	Lower	0.12	0.75	1.00	0.04	0.03	16		0.6						
		Upper						18								
219	T4	Lower	0.70	0.20	0.20			3.75	0.7				0.8	17.25	4.25	
		Upper	0.80	0.40	0.40	0.03	0.03	4.5	1				1.2	18.75	5.75	
221	X17	Lower						16								
		Upper	0.12	0.80	0.70	0.035	0.03	18			0.3					
222	Gray Cast Iron	Lower	3.50	0.80	0.50	0.05	0.08									
		Upper	3.80	1.90	1.10	0.15										

Note: Total 222 steel grades

Chemical composition of some grades of Case Hardening steels

Annex-II

Steel grade \ Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al
20MnCr5	0.17 - 0.22	0.15 - 0.4	1.1 - 1.4	0.035 (Max)	0.035 (Max)	1 - 1.3				
AISI/ SAE-8620	0.18 - 0.23	0.15 - 0.35	0.7 - 0.9	0.03 (Max)	0.04 (Max)	0.4 - 0.6	0.15 - 0.25	0.4 - 0.7	0.35 (Max)	
AISI/ SAE-8622H	0.19 - 0.25	0.15 - 0.35	0.6 - 0.95	0.04 (Max)	0.03 (Max)	0.35 - 0.65	0.15 - 0.25	0.35 - 0.75	0.35	
JIS SCM-415	0.13 - 0.18	0.15 - 0.35	0.6 - 0.85	0.03 (Max)	0.03 (Max)	0.9 - 1.2	0.15 - 0.3	0.25 (Max)	0.3 (Max)	0.02 - 0.03
JIS SCM-420	0.18 - 0.23	0.15 - 0.35	0.6 - 0.85	0.03 (Max)	0.03 (Max)	0.9 - 1.2	0.15 - 0.3	0.25 (Max)	0.3 (Max)	
JIS SCM-435	0.33 - 0.38	0.15 - 0.35	0.6 - 0.85	0.03 (Max)	0.03 (Max)	0.9 - 1.2	0.15 - 0.3	0.75 (Max)	0.3 (Max)	

Chemical composition assortment to ascertain case hardening steels

Elements	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al
Chemical composition assortment to ascertain case hardening steels	0.17 - 0.38	0.15 - 0.40	0.6 - 1.10	0.03 - 0.035	0.03 - 0.035	0.35 - 1.3	0.3 (Max)	0.25 (Max)	0.3 (Max)	0.03 (Max)