

“FOURTH SCHEDULE

[Subsection 33c(1)]

**STANDARDS FOR CERTIFICATION OF CONSTRUCTION MATERIAL**

<i>No.</i>	<i>Types of construction material</i>		<i>Approved standards by the Lembaga</i>	<i>Description/Application</i>
<b>1.</b>	<b>SANITARY WARES</b>			
1.1	Ceramic wash basins		MS 147	Vitreous China Sanitary Appliances
1.2	Ceramic water closet pans without flushing cisterns		MS 147 MS 1522 MS 2578	Vitreous China Water Closet Pans Fire clay W.C
1.3	Ceramic water closet pans with flushing cisterns		MS 147 MS 1522 MS 795-1 to 3 MS 2578	Vitreous China Sanitary Appliances
1.4	Ceramic bidets and urinals (floor or wall mounted)		MS 147	Vitreous China Sanitary Appliances
1.5	Ceramic flushing cisterns equipped with mechanism (close couple, medium level, high level or concealed)		MS 147 MS 795	Vitreous China Sanitary Appliances
1.6	Ceramic flushing cisterns not equipped with mechanism (close couple, medium level, high level or concealed)		MS 147	Vitreous China Sanitary Appliances
1.7	Plastic flushing cisterns equipped with mechanism (close couple, medium level, high level or concealed)		MS 795	Mechanism for flushing
<b>2.</b>	<b>UNGLAZED AND GLAZED CERAMIC TILES</b>		MS ISO 13006	Creamic tile for glazed, unglazed, polished and non-polished
<b>3.</b>	<b>CERAMIC PIPES AND PIPE FITTINGS</b>		MS 1061:Part 1 to 3	
<b>4.</b>	<b>CEMENT</b>			
4.1	Portland cement			
	a.	White portland cements of all kinds	MS 888	White Portland cement
	b.	Others portland cement of all kinds	MS EN 197	Portland Cement CEM I and Portland Composite Cements CEM II.

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	4.2	Aluminous cement	BS 915, IS 15895	Aluminous cement
	4.3	Other hydraulic cement	MS EN 197	Blastfurnace Cement CEM III, Pozzolanic Cement CEM IV and Composite Cement CEM V.
	4.4	Masonry Cement	MSEN 413	Masonry cement
<b>5.</b>	<b>PREFABRICATED TIMBER ROOF TRUSS SYSTEM</b>		<b>CIS 5</b>	
<b>6.</b>	<b>PRECAST CONCRETE PILES FOR FOUNDATION</b>		<b>MS 1314: Part 1 to Part 7</b>	<b>Square concrete pile</b>
<b>7.</b>	<b>INSULATION MATERIALS</b>			
	7.1	Slag wool, rock wools and similar mineral wools (including intermixtures thereof) in bulk, sheets or rolls	MS 1020	Mineral wool for construction
	7.2	Thin sheets (voiles), webs, mats, mattresses, boards and similar non-woven products, of fibre glass	MS 1020	
	7.3	Glass fibre (including wools)	MS 1020	
<b>8.</b>	<b>FLOAT GLASS</b>			
	8.1	Clear float glass, non-wired, non-coloured throughout the mass, other than square or rectangular shape (including those with one or two or three or four corner cut)	MS 1135	
	8.2	Tinted float glass, coloured throughout the mass (body tinted), opacified, flashed or merely surface ground, other than optical glass	MS 1135	
	8.3	Coated glass	MS 2397	eg: Reflective glass, Low-e, non-wired, having an absorbent layer, other than optical glass
	8.4	Safety Glass	MS 1498	Eg: Wired glass, laminated, tempered, fire resistance, plastic film bonded, organic coated (film).

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9.	<b>FIBRE CEMENT FLAT SHEET NOT CONTAINING ASBESTOS</b>		MS 1296	Wall and partition panel
10.	<b>RADIANT BARRIER (THERMAL INSULATION FOIL)</b>		MS 2095	Thermal insulation
11.	<b>IRON AND STEEL PRODUCTS</b>			
	11.1	<b>Hot-rolled carbon steel sheets / plates</b>		
		a. <b>Hot Rolled Steel Coil / Sheets / Plates</b>	MS EN 10025 MS 1705	Material for steel structures For catwalk (scaffolding)
		b. Hot Rolled Chequered coils / Sheets / plates	ASTM A786 / MS EN 10025	For flooring, stair case application.
	11.2	<b>Coated steel – Coils / Sheets</b>		
		a. Electrolytically plated or coated with zinc (Coils/sheets)	MS 2543	Door Frame/Window Frame/Roller shutter and any other construction application
		b. Hot-dip Zinc-Coated carbon steel coil/sheet. Otherwise plated or coated with zinc. * Only in sheets	*MS 2500 (Profile) MS 2384 MS 2385	Roof/Cladding/Steel truss/Purlin/Batten/floor decking/ducting/steel frames/ceiling panel or ceiling strips/gutter and roofing accessories and any other construction application
		c. Continuous hot-dip Aluminium- Zinc alloy-coated coil/sheet. Plated or coated with Aluminium-Zinc alloys. * Only in sheets	*MS 2500 (Profile) JIS 3317 JIS 3323 MS 1196 AS1397	Roof/Cladding/Steel truss/Purlin/Batten/ducting/steel frames/ceiling panels or ceiling strips/gutter and roofing accessories and any other construction application

“FOURTH SCHEDULE

[Subsection 33c(1)]

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	d.	Painted, varnished or coated with plastics	MS2383 JIS G 3318	Roof/Cladding/Steel truss/Purlin/Batten/floor decking/ductings/steel frames/ceiling panel or ceiling strips and any other construction application
	e.	Plated or Coated roofing tile	MS 2500	Roof
11.3	<b>Pipes &amp; tubes</b>			
	a.	Seamless Carbon Steel Pipes	API 5L or MS ISO 3183 or API 5CT	Product use in oil and gas industry
	b.	Welded Carbon Steel Pipes  i)Circular cross-section, non-circular cross-section square or rectangular cross-section. Others of non- circular cross-section	i) MS 61386-21 or BS31 ii) MS 863 iii) MS 146 iv) MS 1862 v) BS EN 10219 vi) BS EN 10210 vii) JIS G 3444 viii) MS 10025-2 ix) JIS G3350 ix)ENN 1993-1-6 x)EN 39  xi) SPAN TS21827-1 TS21827-2  xii) API 5L API 5CT MS ISO 3183 MS 2381	e.g:  i) For Conduit pipe (mm) or For Conduit pipe (inch) ii) For water and structural iii) For Scaffolding. iv) For machine structural v) For general structural vi) For Lipped & Light Channel vii) For water conveyance Pipe viii) For Lined pipes use in oil and gas industry pipe

“FOURTH SCHEDULE

[Subsection 33c(1)]

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11.4	<b>Other cast iron and articles</b>		
	i) Bridges and bridge sections ii) Towers and lattice masts  iii. Scaffolding  iv. Corrugated sheet pile Cold form  v. Bearing piles –angle shape and section  vi. Guardrails  vii. Fabricated structure	MS EN 10025-2 MS 1862  MS 1462  MS2025- 1 MS2025-2  MS 1491 MS 1490  AASHTO M-180 BS EN ISO-1461:2009  MS EN 10025	Bridges and bridge sections Towers and lattice masts  Scaffolding  Corrugated sheet pile Cold form  Hot rolled non-alloy structure steel section and H-piles  Guardrails  Fabricated steel structure
	viii. Railway track	JIS E 1101 DIN 536 BS EN 13674-1	e.g: rails, check-rails and rack-rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross-ties), fish-plates, chairs, chair wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails
	ix. Tubes, pipes and hollow profile of cast iron	MS 1919 BS EN 598 ISO 6594	i) For water pipeline ii) Pipe for sewerage iii) Cast iron drainage pipe
	x. Light gauge steel section	JIS G3350	Lipped and light channel for building and other structure

“FOURTH SCHEDULE

[Subsection 33c(1)]

STANDARDS FOR CERTIFICATION OF CONSTRUCTION MATERIAL

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11.5	<b>Wire rod ,Bars and Wires</b>			
	a.	Hot rolled steel reinforcement bar	MS 146	For cut and bend, precast piles straighten bars and other construction purpose
	b.	Steel Wire Rod	MS ISO 16120-1,2,3 & 4	For construction related industries such as wire mesh, nails, bolts and nuts, tie rods, stirrup and links, chain links fence, gabion etc.
	c.	Round bar in coil	MS 144	For cut and bend, precast piles straighten bars and other construction purpose
	d.	Wire, Strands and Ropes	MS 1138-2 MS 1138-3 MS 1138-4 MS ISO 4344 MS ISO 2408	PC wire for precast concrete. PC bar PC strand Steel wire ropes for lift Steel wire ropes for general purpose
	e.	Wire mesh, grill, netting and fencing	MS 145	Steel fabric, mesh for fencing, wire mesh for other construction purpose.
	f.	Bar (Straight Form)		
		Hot rolled steel reinforcement bar (Round bar)  i. Carbon Steel for Structural Use  ii. Carbon steel for structural machine use (Flat bar)  iii. Hot rolled steel reinforcement	MS 144  MS EN 10025  MS 146	For cut and bend, precast piles straighten bars and other construction purpose  For building platform, drain covers, structural steel fabricated industrial building, transmission towers, air-conditioning hanging brackets  For cut and bend, precast piles

“FOURTH SCHEDULE

[Subsection 33c(1)]

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		bar		straighten bars and other construction purpose
		iv. Round bar	MS 144	Cold drawn wire for mesh application and other construction purpose
		v. Equal Angles, shape and section U,I, L,T or H sections	MS EN 10025	For transmission towers and building
	11.6	<b>Welded Stainless Pipes</b>		
		a. Seamless, welded stainless steel pipes for construction purpose	MS 1841 ASTM A554	Casing and tubing used in drilling for oil and gas industry Welded stainless pipe for construction purpose.
		b. Seamless, welded stainless steel pipes for the conveyance of water	MS 1988	Conveyance of water
		c. Light gauge stainless steel tube for ordinary piping	JIS G 3448	For general fabrication
		d. Angle Shape and section of stainless steel.	MS2240-2	Handrail, guard rail, balustread, bracket.
	11.7	<b>Alloy steel product</b>		
		a. Hot rolled alloy steel plate and coil	MS EN 10025-6	For structure and fabrications
		b. Welded alloy steel pipe and tubes	BS EN 10219 BS EN 10210	Cold formed welded structural hollow section Hot formed welded structural hollow section
		c. Equal Angles, shape and section U,I, L,T or H sections	MS EN 10025-6	For structure and fabrications
	11.8	<b>Cast Iron product</b>		
		a. Non-malleable cast iron - Manhole covers	BS EN 124:1994	Manhole covers, gratings and thereof.
		b. Tube pipe and hollow profile	MS 1919 BS EN 598 ISO 6594	Ductile iron pipe for water Ductie iron ppe for sewerage Cast iron pipe for drainage

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12.	<b>ALUMINIUM</b>			
12.1	Aluminium plates, sheets and strip of a thickness exceeding 0.2 mm, whether or not alloyed		MS 2040	General purpose
12.2	Aluminium foils of a thickness not exceeding 0.2 mm, not backed :		MS 1848	
	a.	Rolled but not further	MS 1848	
12.3	i. Aluminium plates, sheets, and strips		MS 2040	External or internal building façade, ceiling strips, wall panels etc.
12.4	ii. Aluminium structures		MS 832 MS 1017	Window Sliding door.
12.5	Aluminium Composite Panel for exterior and interior wall		MS 2571(P)	External and internal Composite panel
12.6	Aluminium and aluminium alloy – coil coated sheet and strips for general applications		MS EN 1396(P)	
13.	<b>READY MIX CONCRETE</b>		MS 523	

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