

SECTION: 2.14

**PAINTING**

1.0 **Scope**

1.1 The scope of work covers painting of:

- i) All equipment
- ii) Piping & pipe supports
- iii) Duct & duct supports
- iv) Electric Panels & cable trays

1.0 All equipment and piping shall be painted in accordance with the following colour code (or other colours if specifically requested for by the Project Manager.)

<u>Equipment/ Service</u>	<u>Colour</u>	<u>BAND</u>		
		Width (mm)	Spacing (mm)	Colour
<b>COLD WATER</b>				
Municipal	Sea green	-	-	-
Domestic	- do -	25	1500	White
Flush	- do -	25	1500	Brown
Hot water supply	- do -	25	1500	Red
Hot water Ret	- do -	25	1500	Red (chain dotted)
<b>DRAINAGE</b>				
	Black			
Soil	- do -	-	-	-
Waste	- do -	25	1500	White
Vent.	- do -	25	1500	White (Chain dotted)
Rain water	- do -	-	-	
<b>FIRE</b>				
Hydrant line	Fire Red	-	-	-
Sprinklers	- do -	25	1500	White

<u>Equipment/ Service</u>	<u>Colour</u>	<u>BAND</u>		
		Width (mm)	Spacing (mm)	Colour
<b>STEAM</b>	Silver grey			
Over 3 kg	- do -	-	-	-
Upto 3 kg	- do -	25	1500	Red
Condensate	- do -	25	1500	Red (Chain dotted)
<b>AIR</b>				
Compressed Air	Sky blue	-	-	-
<b>OILS</b>				
HSD	Light Brown	-	-	-
LDO	- do -	25	1500	White
<b>NATURAL GAS</b>	Light Brown	25	1500	White & Blue
<b>WATER CHILLING UNIT</b>				
a) Compressor	Dark Adm. Grey	-	-	-
b) Motor	"	-	-	-
c) Condenser	Steel Blue	-	-	-
<b>REFRIGERANT PIPING</b>				
a) Hot gas	Signal Red	25	1500	-
b) Liquid lines	Signal Red	25	600	White
c) Suction	Riveira Blue	-	-	-

<u>Equipment/ Service</u>	<u>Colour</u>	Width (mm)	<u>BAND</u>	
			Spacing (mm)	Colour
<b>PUMPS &amp; MOTORS</b>	Canary Yellow	-	-	-
<b>CHILLED WATER</b>				
a) Supply	Fiesta Blue	-	-	-
b) Return	Fiesta Blue	25	600	White
<b>CONDENSER WATER</b>				
a) Supply	Steel Blue	-	-	-
b) Return	Steel Blue	25	600	White
<b>COOLING TOWERS</b>	Steel Blue	-	-	-
<b>DUCTS &amp; DUCT SUPPORTS</b>	Black or as directed	-	-	-
a) Exposed ducts	Approved colour			
b) Support				
<b>UNIT COLOUR &amp; AH</b>	Fiesta Blue (28-9104	-	-	-
<b>ELECTRIC PANELS</b>	Steel grey			

2.0 All surfaces to be painted shall be thoroughly cleaned with wire brush to remove completely rust and other extraneous substances. Over the cleaned surfaces one coat zinc chromate primer shall be applied completely covering the exposed surfaces. Out finish coat of painting shall be applied one day after the prime coat, after ensuring that the paint is dry. The second coat shall be done before the installation is handed over and after approval to do so from the Project Manager. Black steel ducts shall be painted with a prime coat and above and galvanized steel duct need to be painted without the need of a prime coat. The DFT of the coating should minimum 250.

### 3.0 Mode of measurement

3.1 All painting shall form part of the cost (item rate) of equipment, piping etc. No separate payment shall be admissible.