

Equipment

		GROUND COLOUR		IDENTIFICATION TAG/BAND			
Sl. No.	Equipment	Colour	RAL	Colour	ISC No.	Equi-valent RAL No.	Remarks
	21.0 KV/15.75 KV	Beige-rot	3012				
	11.0 KV	Zink Gleb	1018	White		9010	
	6.6 KV	Enzian Blau	5010	White		9010	
	3.3 KV	Gras Grün	6010	White		9010	
	415 V	Lehm Braun	8003	White		9010	
	220V DC	Tief Orange	2011				
	Gen Fld.	Tiefschwarz	9005				
69.	Unit Control board (Control Room)	Grey	9002				
70.	Control panel, PLC panel & UPS for CHP/AHP	Grey	9002				
71.	MOTORS						
	- Indoor	Blue	5012				Enamel paint to be used
	- Outdoor	Blue	5012				
72.	LT SWITCHGEAR (INDOOR)						
	- LT Switchgear Exterior	Grey & Blue	90025012				Front & Rear Panels in Grey (RAL

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							9002). End Panels sides in Blue (RAL 5012)
	- MCC	Grey & Blue	9002 5012				Front & Rear Panels in Grey (RAL 9002). End Panels sides in Blue (RAL 5012)
	- D.C. Distribution board	Grey & Blue	9002 5012				Front & Rear Panels in Grey (RAL 9002). End Panels sides in Blue (RAL 5012)
	- L.T. busduct outside of enclosures	Blue	5012				
73.	6.6 KV SWGR	Grey & Blue	9002 5012				Front & Rear Panels in Grey (RAL 9002). End Panels sides in Blue (RAL 5012)
	- 6.6 KV busduct inside of main plant	Blue	5012				

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	bldg.						
	- 6.6 KV busduct outside of main plant building	Blue	5012				
74	33 KV SWGR cubicle	Grey & Blue	9002 5012				Front & Rear Panels in Grey (RAL 9002). End Panels sides in Blue (RAL 5012)
	- CR Panels	Grey	9002				
	- Surge protection cubicle	Grey	9002				
75.	Control and console inserts	Grey	9002				
76.	Electronic system cabinets, computer system cabinets, BMS, ATRS, EHC system etc. (Control equipment room)	Blue & Grey	5012& 9002				Front & Rear Panels in Grey (RAL 9002). End Panels sides in Blue (RAL 5012)
77	All locally mounted C&I systems panel cabinets local (External)	Blue & Grey	5012& 9002				Front & Rear Panels in Grey (RAL 9002). End Panels sides in Blue (RAL 5012)
78.	Intercom	Equipment					

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	- Hand sets unit	Grey	9002				
	- Hand sets plant	Grey	9002				
79	- Metal containers/ cable junction boxes	Grey	9002	White		9010	
80.	LIGHTING EQUIPMENT/PANELS						
	- Exterior	Grey	9002				
81.	Unit Heaters	Grey	9002	Signal Red	537	3001	Legend in Black letters.
82.	SWITCHYARD EQUIPMENTS						
	I. Control and relay panels (control equipment room and switchyard control room)	Blue & Grey	5012 & 9002				Legend in Black letters. Ends in Blue. Front & Rear in Grey.
	II. PLCC	Blue & Grey	5012 & 9002				Legend in Black letters. Ends in Blue. Front & Rear in Grey
83.	Switchyard CB, Isolators, CTs, PTs, Lighting arrestors, Wave Traps, CVTs, Marshalling boxes, JBs, Local Panels	Grey	9002				

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84.	Porcelain parts like insulators	Brown	As per IS				Possibility of Using Grey Shade be explored
85.	Generator Relay panels (GRP's)	Grey & Blue	9002				
86.	All other Structures and equipment.	Grey	9002				
87.	INSTALLATION MATERIALS						
	- Resin Tubes	Grey	9002				Legend in black letters.
	- Steel Tubes						Legend in black letters.
88.	Gang ways and trays	Grey	9002				Legend in black letters.
89.	Misc. steel structures (trellies, Portals, brackets)	Grey & Blue	9002 & 5012				Primary Structural members (Columns & Beams) in Blue. Secondary members in Grey.
90.	Storage boxes	Grey	9002				Legend in black letters.
91.	INSULATING OIL TREATMENT PLANT						
	- Tanks and the equipment	Grey	9002	White		9010	Legend in Black Letters

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92.	IDENTIFICATIONS PLATES						
	Mechanical equipment's and piping						
	- Background	White	9010				
	- Border	Black	9011				
	- Lettering	Black	9011				

Note: 1) For mechanical equipments ground colour indicated against each equipment shall be followed in case equipment is not insulated/cladded.

2). However if enclosure is provided for the mechanical equipments, then the indicated ground colour for mechanical equipment shall be followed

APPENDIX-B

B. Pipelines

		Ground Colour		Identification Tag/ Band Colour				
S. No.	Medium	Colour	RAL	COLOUR	ISC No	RAL #	Legend	Remarks
1.	WATER							
a.	Untreated or Raw/service	Grey	9002	Sea Green	217		RW/SW	
b.	Treated/ Demineralised	Grey	9002	Sea Green	217		DMW	
c.	Condensate	Grey	9002	Sea Green	217		MC	
i.	LP bypass spray	Grey	9002	Sea Green	217		LPBA	
ii.	Condensate Makeup line to condenser from surge tank and from DM Supply header	Grey	9002	Sea Green	217		CCM	
d.	Boiler feed	Grey	9002	Sea Green	217		BFD	
i.	HP bypass attemperation	Grey	9002	Sea Green	217		HPBA	
ii.	Super heater attemperation	Grey	9002	Sea Green	217		SHA	
iii.	Reheater attemperation	Grey	9002	Sea Green	217		RHA	
iv.	Aux. PRDS	Grey	9002	Sea Green	217		APRDSA	

		Ground Colour		Identification Tag/ Band Colour				
S. No.	Medium	Colour	RAL	COLOUR	ISC No	RAL #	Legend	Remarks
	attemperation							
2.	STEAM							
a.	Main	Aluminium*		Signal Red	537	3001	MS	*Aluminium is to be used only in case Where the pipes are not already clad with aluminium sheets.
b.	Auxiliary	Aluminium*		Signal Red	537	3001	AS	
c.	Bled (Extraction)	Aluminium*		Signal Red	537	3001	1 EX 2 EX 6 EX	
d.	Hot reheat	Aluminium*		Signal Red	537	3001	HR	
e.	Cold reheat	Aluminium*		Signal Red	537	3001	CR	
f.	HP bypass	Aluminium*		Signal Red	537	3001	HPB	
g.	LP bypass	Aluminium*		Signal Red	537	3001	LPB	
h.	Exhaust/vent (open to atmosphere) and safety valve	Aluminium*		Light Brown	537	3001	V/SVE	Hazard mark may be given

		Ground Colour		Identification Tag/ Band Colour				
S. No.	Medium	Colour	RAL	COLOUR	ISC No	RAL #	Legend	Remarks
3.	AIR							
a.	Instrument	Grey	9002	Sky blue	101		IA	
b.	Service/Plant	Grey	9002	Sky blue	101		PA	
c.	Vacuum	Grey	9002	Sky blue	101		VC	
4.	AIR STEAM MIXTURE							
a.	From turbine glands to gland steam condenser	Aluminium*		Sky Blue	101		ASM	*Aluminium is to be used only in cases where the pipes are not already clad with aluminium sheets.
b.	From condenser	Aluminium*		Sky Blue	101		ASM	*Aluminium is to be used only in cases where the pipes are not already clad with aluminium