DOCUMENT TITLE: INSTRUMENT EARTHING TYPICAL DIAGRAM



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			NLS.:	Non Intrinsically	Safe			
			J/BOX:	Junction Box				
			DIA.:	Diameter				
			ELECT:	Electrical				
			REP:	Reference				
			SWA: MOPO.	Steel Wire Armoi				1 1
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CABLE SCREENS SHALL BE EARTHED AT ONE POINT ONLY THIS SHALL BE AT THE INSTRUMENT EQUIPMENT ROOM EARTH BARS. CONTINUITY OF THE SIGNAL SHALL BE MAINTAINED THROUGHOUT THE CABLE RUN.
 FIELD JUNCTION BOXES TO BE DEDICATED TO ONE SIGNAL CATEGORY ONLY.

3. I.S. AND NON-I.S. SIGNALS/CABLES SHALL NOT BE MIXED.

4. ALL SPARE CORES WITH IN FIELD I.S. MULTICORE CABLES SHALL BE CONNECTED TO I.S. TERMINALS AT BOTH ENDS AND EARTHED DOWN AT LOCAL EQUIPMENT ROOM TO THE CLEAN EARTH.

5. INTERCONNECTION BETWEEN EARTH BARS SHALL BE DOUBLE BOLTED FOR SECURITY.

6. CABLE TRAY TO BE EARTED AT EACH END OF A RUN.

7. TAPE AND INSULATE NON GROUNDED ENDS OF SCREENS OF SIGNAL CABLES.

8. FIELD EARTHING FOR INSTRUMENT EQUIPMENT TO BE TERMINATED AT LOCAL EARTHING BARS (SUPPLIED BY ELECT GROUP).

9. WHERE BARRIERS ARE BAR (AS OPPOSED TO RAIL) MOUNTED THEN MOUNTING BAR TO BE INSULATED & LINKED TO INSTRUMENT EARTH.

10. THE RESISTANCE TO EARTH FOR THE INSTRUMENT EARTH AND I.S. EARTH SHALL BE LESS THAN 0.5 OHM INDEPENDENTLY OF SAFETY EARTH.

11. CABLE SWA WILL BE EARTHED VIA THE CABLE GLAND TO THE JUNCTION BOX/LOCAL CONTROL PANEL.

12. FOR INTERCONNECTING HARDWIRED CABLES BETWEEN THE MAIN CONTROL BUILDING AND OTHER BUILDING, SCREEN SHALL BE EARTHED AT THE MAIN CONTROL BUILDING ONLY.

13. SCREEN EARTHED AT SYSTEM CABINET OR MARSHALLING CABINET ONLY.

14. EARTHING OF DATA HIGHWAYS ACCORDING TO SYSTEM SUPPLIER'S REQUIREMENTS.

15. THIS DRAWING IS A "PHILOSOPHY ONLY" DRAWING SPECIFIC EARTHING REQUIREMENTS WILL BE SHOWN ON EARTHING SCHEMATICS OR SYSTEM SUPPLIER'S DOCUMENTATION.

16. EARTH RESISTIVELY AT SITE IS REFERRED TO EARTHING SYSTEM CALCULATION BASED ON THE GEOTECHNICAL STUDY OF SITE.

17. SYSTEM REF. EARTHS ARE NOT PREFERRED.

18. SCREENS OF CABLES CARRYING I.S. SIGNALS SHALL BE CONNECTED TO AN EARTH BAR SEPARATED FROM EARTH BAR USED FOR SCREENS OF CABLES CARRYING NON I.S. SIGNALS.

19. NOT APPLICABLE TO DCS, ESD AND F&G AS PER VENDOR'S REQUIREMENT (SYSTEM EARTH FOR SAFETY SYSTEM IS INTEGRATED INTO SAFETY EARTH AS PER VENDOR'S STANDARD).

20. GROUNDING CABLE FOR ONLY SAFETY SYSTEM CABINET (ESD, F&G) SHALL TO GROUNDING BAR INDIVIDUALLY.

21. ALL INTERCONNECTIONS BETWEEN EARTH BARS TO BE 35mm CONDUCTORS.

22. ALL EARTH STUDS FOR JUNCTION BOXES J/BOX FRAMES ETC. SHALL BE 10mm DIA. MIN.

23. ALL INSTRUMENT STANDS, JUNCTION BOXES, CABLE RACK, TRAY AND TRUNKING ETC SHALL BE CONNECTED TO PLANT EARTH BY 16mm INSTALLATIONS OVER 20m IN LENGTH 10mm FOR INSULATIONS LESS THAN LENGTH. COLORED YELLOW/GREEN.

24. ALL WIRE LINK CONNECTIONS TO EARTH BARS IN EQUIPMENT CABINETS SHALL BE 1.00mm PVC COVERED CONDUCTORS (YELLOW/GREEN)

25. ALL EQUIPMENT CABINET/PANEL EARTH BARS TO BS2874(C-103) OR EQUIVALENT AND OF 75mm CROSS SECTIONAL AREA (MIN.) BARS MOUNTED ON INSULATORS SHALL BE SPACED AT A MIN. OF 25mm FROM CABI FRAME.

26. TWO IDENTICAL INSULATED 70mm CONDUCTORS OF THE SAME LENGTH SHALL BE BOLTED TO THE INSTRUMENT EQUIPMENT ROOM EARTH BAR INSTALLATIONS AND TO PLANT EARTH SYSTEM OR MASTER REF GI ELECTRODE (BY ELECT DEPT) CONDUCTORS TO BE SPACED 150mm APART (MIN).

27. CABLES SHALL BE CLAMPED TO A RAIL AT THE BASE OF THE CABINET. THE INSULATION AND ARMOUR IS TO BE CUT BACK AND THE ARMOUR CONNECTED TO THE NON-INSULATED SAFETY EARTH USING 2.5mm EA CABLE.

28. INSTS/JUNCTION BOXES AND ARMOUR OF FIELD CABLES MAY BE BONDED TO OTHER STAND/FRAMES WITH 6mm CONDUCTOR. THE STAND OR FRAME IS THEN BONDED TO PLANT EARTH IN ACCORDANCE WITH NO

29. ALL WIRE LINK CONNECTION TO EARTH BARS IN EQUIPMENT CABINETS SHALL BE A MIN. 1.5mm PVC COVERED CONDUCTORS.

30. EARTH BUSES SHALL BE TYPICALLY COPPER, 6 mm THICKNESS AND 40 mm WIDE (IPS-G-IN-220(1))

(31. EARTH BAR FOR PE., I.S & N.I.S. ARE SEPARATE FROM EACH OTHER.

32. MIN DISTANCE BETWEEN P.E. AND C.E. EARTH TB BE 20 METER.

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33. FOR MTO PLEASE REFER TO MTO FOR EARTHING & LIGHTING SYSTEM DOC. NO. BK-GCS-PEDCO-120-EL-MT-0001

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	Specific	cation For Earthing & Light	ning System	BK-GNG	BK-GNRAL-PEDCO-000-EL-SP-000					
	Engine	ering Standard For Electrics rial And Kon-Industrial)	al System Desi	en 🛛	IPS-B-EL-	100				
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