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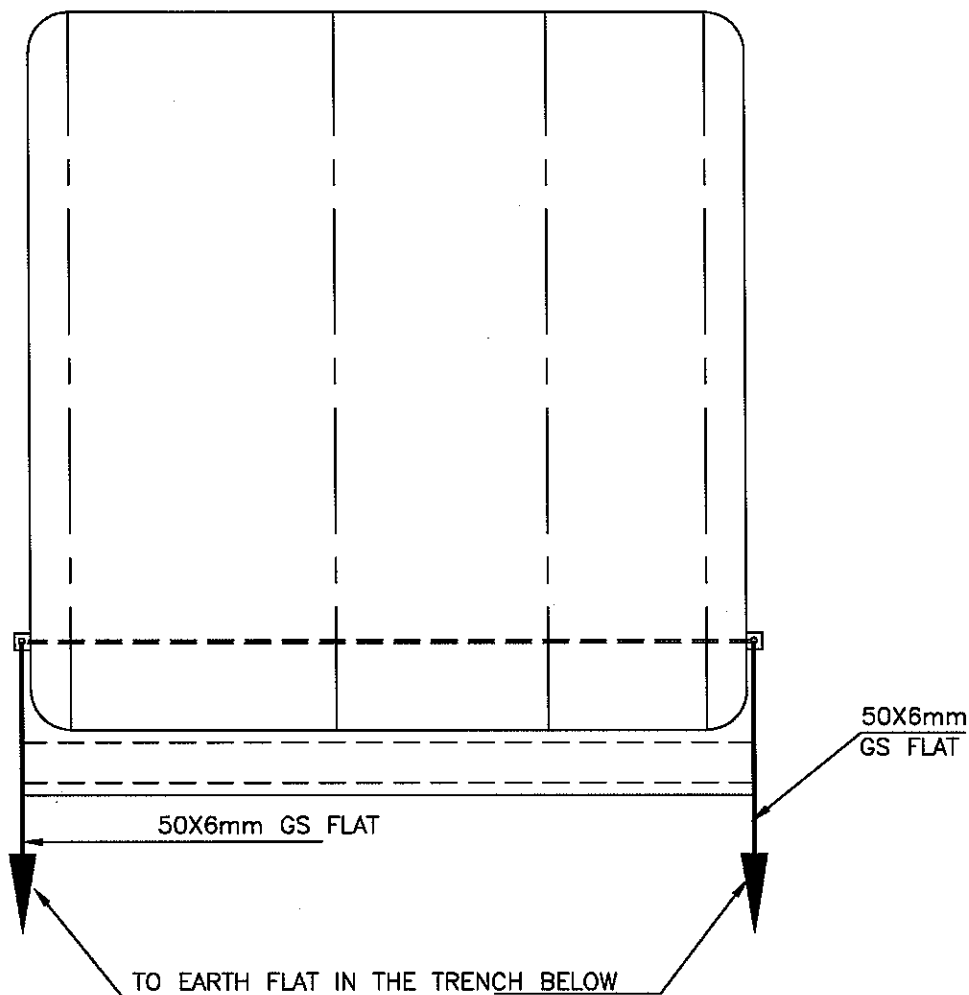
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COMPUTER DRG. PATH NAME :

SIGN &amp; DATE

INVENTORY NO.

REV. 02	DATE 21.06.2013	ALTERED TTR CHECKED SS APPD AG	REV. 03	DATE 16.06.2014	ALTERED TTR CHECKED SKS APPD AKDAS	REV. 04	DATE 21.08.2014	ALTERED TTR CHECKED SKS APPD AKDAS
Revised as per PGCIL comments vide letter C/ENGG/HVDC/NER-NR/257 -AG/389 dated 22.05.2012			Revised to submit new equipment earthing details & as per POWERGRID mail date 17-01-2014			Revised to submit new equipment earthing details & as per POWERGRID Site letter date 28-03-2014 JOB No.		
			REV. 06 DATE 06.01.2015 CHECKED SS APPD SKS			REV. 05 DATE 14.11.2014 CHECKED SS/SKS APPD AKDAS		
Revised to submit new drawing			Revised to include additional details and particular to this project					
<p><b>SHEET NO. DESCRIPTION</b></p> <p>1A. NOTES</p> <p>02. 400/220/72.5KV SF6 CIRCUIT BREAKER</p> <p>02A. 400/220/72.5KV SF6 CIRCUIT BREAKER</p> <p>03. 400/220KV CVT</p> <p>3A. 66KV PT</p> <p>04. 400/220/72.5KV POST INSULATOR (SOLID CORE TYPE)</p> <p>4A. 400/72.5KV POST INSULATOR ON TOP OF FIRE WALL FOR CONVERTER TRANSFORMER</p> <p>05. 400/220/33 KV CLASS ARRESTER</p> <p>5A. 333/9 KV ARRESTER ON TOP OF FIRE WALL FOR CONVERTER TRANSFORMER</p> <p>06. MARSHALLING KIOSK</p> <p>07. 400/220/72.5KV DOUBLE BREAK ISOLATOR WITH ONE EARTH SWITCH</p> <p>7A. 400/220KV DOUBLE BREAK ISOLATOR WITH TWO EARTH SWITCH</p> <p>7B. 400/220/72.5KV DOUBLE BREAK ISOLATOR WITHOUT EARTH SWITCH</p> <p>7C. EARTH SWITCH</p> <p>08. SHIELD WIRE TOWER</p> <p>08A. TOWER WITHOUT PEAK</p> <p>09. 400/220/72.5KV CURRENT TRANSFORMER</p> <p>10. CABLE TRENCH</p> <p>11. DETAIL OF PIPE EARTH ELECTRODE IN TREATED EARTH PIT (ET)</p> <p>11A. ROD EARTH ELECTRODE WITH EARTH PIT</p> <p>11B. ROD EARTH ELECTRODE WITHOUT EARTH PIT</p> <p>12. RAIL BONDING</p> <p>13. AUTO TRANSFORMER</p> <p>13A. LT TRANSFORMER</p> <p>14. AUXILIARY EARTH MAT FOR ISOLATOR MAIN MECH.,E/S MECH. BOX.</p> <p>14A. AUXILIARY EARTH MAT FOR ISOLATOR MAIN MECH.,E/S MECH. BOX-Z5.</p> <p><b>SHEET NO. DESCRIPTION</b></p> <p>14B. AUXILIARY EARTH MAT FOR ISOLATOR MAIN MECH.,E/S MECH. BOX-Z2.</p> <p>15. SWITCHGEAR / MCC</p> <p>16. 400/220KV WAVE TRAP</p> <p>17. FENCE POST</p> <p>18. TYPICAL ARRANGEMENT OF EQUIPMENT EARTHING WITH MAIN GRID</p> <p>19. WELDING DETAILS</p> <p>20. WELDING DETAILS</p> <p>21. WELDING DETAILS</p> <p>22. CNG SET (TYP.)</p> <p>23. SHUNT REACTOR</p> <p>23A. NEUTRAL GROUNDING RECTOR</p> <p>24. AC FILTER HV CAPACITOR</p> <p>24A. AC FILTER LV CAPACITOR</p> <p>25. AC FILTER HP12, HP12B, HP24/36LOWER, HP24/36B REACTOR</p> <p>25A. AC HP3 FILTER REACTOR</p> <p>25B. AC HP24/36 UPPER REACTOR</p> <p>26. HP12 HP12B, HP3 AC FILTER RESISTOR</p> <p>26A. HP24/36, HP24/36B AC FILTER RESISTORS</p> <p>27. HP 24/36, HP 24/36B LOWER ARRESTER</p> <p>28. HP3 ARRESTER &amp; CONNECTED CT</p> <p>29. PIPE ELECTRODE TO NEUTRAL BUS CONNECTION DETAILS</p> <p>30. SWITCHGEAR, MCC, CONTROL AND RELAY PANELS</p>								
CA NO- C-81901R-S056-8/CA-II/3660 DATED 22.12.2011 FOR ON-SHORE SUPPLIES & C-81901R-S056-8/CA-IV/3662 DATED 22.12.2011 FOR SERVICES								
W.O.NO. 80014			CUSTOMER POWER GRID CORPORATION OF INDIA LTD.					
STATUS			PROJECT ±800KV, 6000MW, HVDC MULTI-TERMINAL NER/ER - NR/WR INTERCONNECTOR-I PROJECT					
SIGN & DATE						DEPT CODE NAME Ranjeet SIGN. Ranjeet DATE 09.12.11 DESN TTReddy SIGN. -sd- DATE 09.12.11 CHD Shobhna SIGN. -sd- DATE 09.12.11 APPD Aruna SIGN. -sd- DATE 09.12.11		
REV. 01			DATE 07.1.2012			ALTD TTR		
CHD SS			APPD AG			Station -Agra		
Revised as per PGCIL comments vide letter C/ENGG/HVDC/NER-NR/257 -AG/125 dated 03.01.2012			TITLE EQUIPMENT & STRUCTURE EARTHING DETAILS					
						DEPT. SCALE		
						SIGN		
						DATE		
						DRAWING NO. TB-4-343-316-131		
						SHEET 1		
						REV. 06		



NOTE:—

1. APPLICABLE TO CONTROL & RELAY PANELS IN ARBs, AC / DC DISTRIBUTION BOARDS, SWITCHGEAR/ MCC, BCU PANELS AND ETC.
2. IN CASE COMMON EARTH BAR CONNECTED TO GROUP OF PANELS/CUBICLES, EARTHING TO THE EARTH BAR SHALL BE PROVIDED AT TWO END OF CONNECTION OF IND.

POWER AND CORPORATION OF INDIA			
± 800 kV 6000 MW HVDC Multi Termin.			
NER / ER-NR / WR Interconnector I			
Approved in Category :	<input checked="" type="checkbox"/> I	<input checked="" type="checkbox"/> II	<input checked="" type="checkbox"/> III
Checked by	Verified by	Reviewed by	
Signature :			
Date :	29/11/17		



## EQUIPMENT EARTHING DETAILS

### SWITCHGEAR, MCC, CONTROL AND RELAY PANELS

DRG. No. TB-4-343-316-131

REV. 00

SHEET No. 30