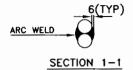
# TYPICAL BELOW GROUND EARTHING DETAILS

CONSULTANT: FICHTNER Consulting Engineers (india) Private Limited 21.07.08 GUJARAT STATE ENERGY GENERATION LIMITED (GESG) Revised in line with M/S GESG comments dated. 19.05.08 350 MW CCPP HAZIRA, GUJARAT DEPT CODE DATE 26.04.08 BHARAT HEAVY ELECTRICALS LTD. 293 DRN -sd-POWER SECTOR DSGN **AKR** -sd-28.04.08 PROJECT ENGINEERING MANAGEMENT E CONTRACT 28.04.08 CHD NOIDA APPD KKK -sd-DISTRIBUTION DRAWING NO. PE-DG-293-509-E003 TYPICAL BELOW GROUND TITLE

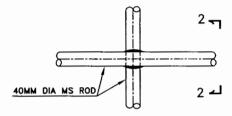
EARTHING DEATAILS

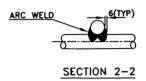
SHEET



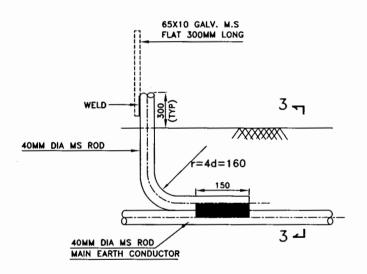


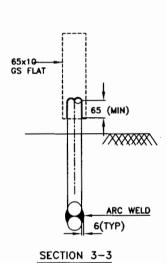
LAP JOINT





**CROSS JOINT** 





LAP JOINT FOR RISER/ COLUMN EARTHING

# WELDED JOINTS

NOTE: - ALL DIMENSIONS ARE IN MM.

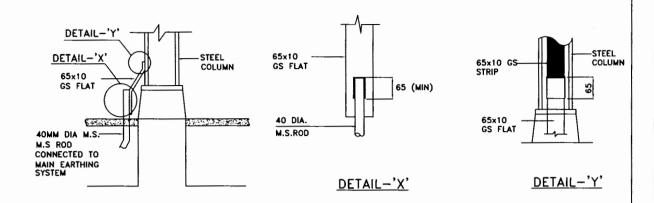


TYPICAL BELOW GROUND
EARTHING DETAILS

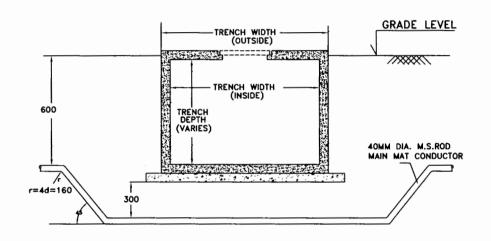
BHEL DRAWING NO.

PE-DG-293-509-E003

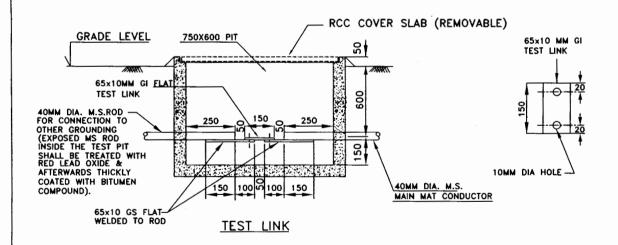
SH 2 OF 7



### COLUMN EARTHING



### TRENCH CROSSING



# (PROVIDED FOR CONNECTION BETWEEN VARIOUS GROUNDING SYSTEMS)

NOTES:ALL DIMENSIONS ARE IN MM.



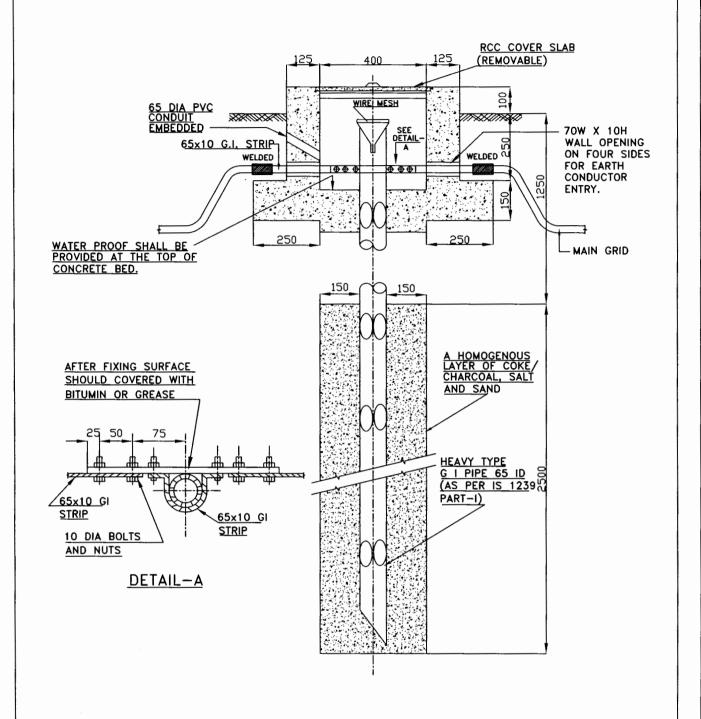
TYPICAL BELOW GROUND

EARTHING DETAILS

BHEL DRAWING NO.

PE-DG-293-509-E003

SH 3 DF 7



#### NOTE:

- 1. ALL DIMENSIONS ARE IN MM.
- 2. TOP OF PIT SHALL BE ALIGNED WITH GRADE LEVEL IN PAVED AREA.

# TYPICAL ARRANGEMENT OF PIPE ELECTRODE

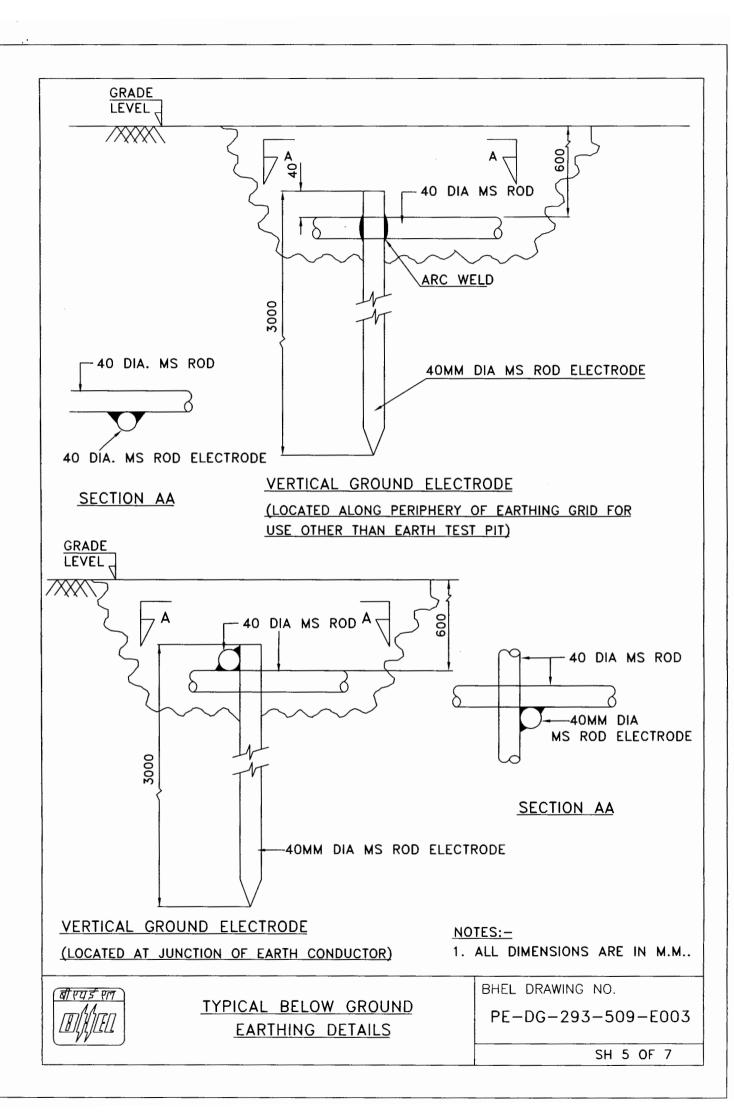


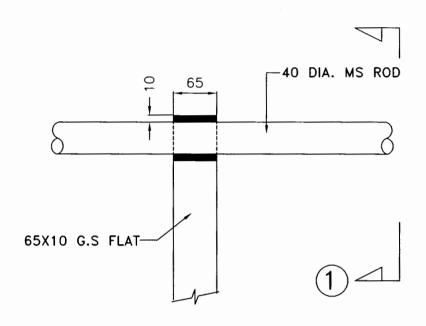
TYPICAL BELOW GROUND
EARTHING DETAILS

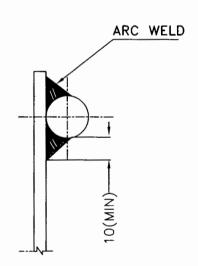
BHEL DRAWING NO.

PE-DG-293-509-E003

SH 4 OF 7







SECTION - 1

CROSS JOINT

BETWEEN M.S ROD & G.S FLAT

# NOTES:-

1. ALL DIMENSIONS ARE IN M.M.



TYPICAL BELOW GROUND

EARTHING DETAILS

BHEL DRAWING NO.

PE-DG-293-509-E003

SH 6 OF 7

# NOTES:-

- 1. WELDING OF GALVANISED FLAT/ MS ROD SHALL BE CARRIED OUT AS FOLLOWS:
  - a) CLEANING OF WELD AREA WITH WIRE BRUSH.
  - b) REMOVAL OF GALVANISATION COATING IN THE WELD AREA.
  - c) WELDING OF THE CONDUCTOR SHALL BE AS PER IS: 816.
  - d) NATURAL COOLING OF WELDING JOINTS.
- 2. EARTH CONDUCTOR SHALL BE ROUTED BELOW ROADS/ TRENCHES WITH MINIMUM CLEARANCE OF 300MM.
- 3. DETAILS OF EARTH TEST PIT / TEST LINK PIT ARE INDICATIVE. ACTUAL DETAILS SHALL BE SHOWN IN CIVIL DRAWINGS & IS IN CIVIL SCOPE.
- 4. DRG. FOR DEPTH OF BURIAL OF MAIN CONDUCTOR SHALL BE FURNISHED. HOWEVER THE DEPTH OF BURIAL SHALL BE 600MM.



TYPICAL BELOW GROUND
EARTHING DETAILS

BHEL DRAWING NO.

PE-DG-293-509-E003

SH 7 OF 7