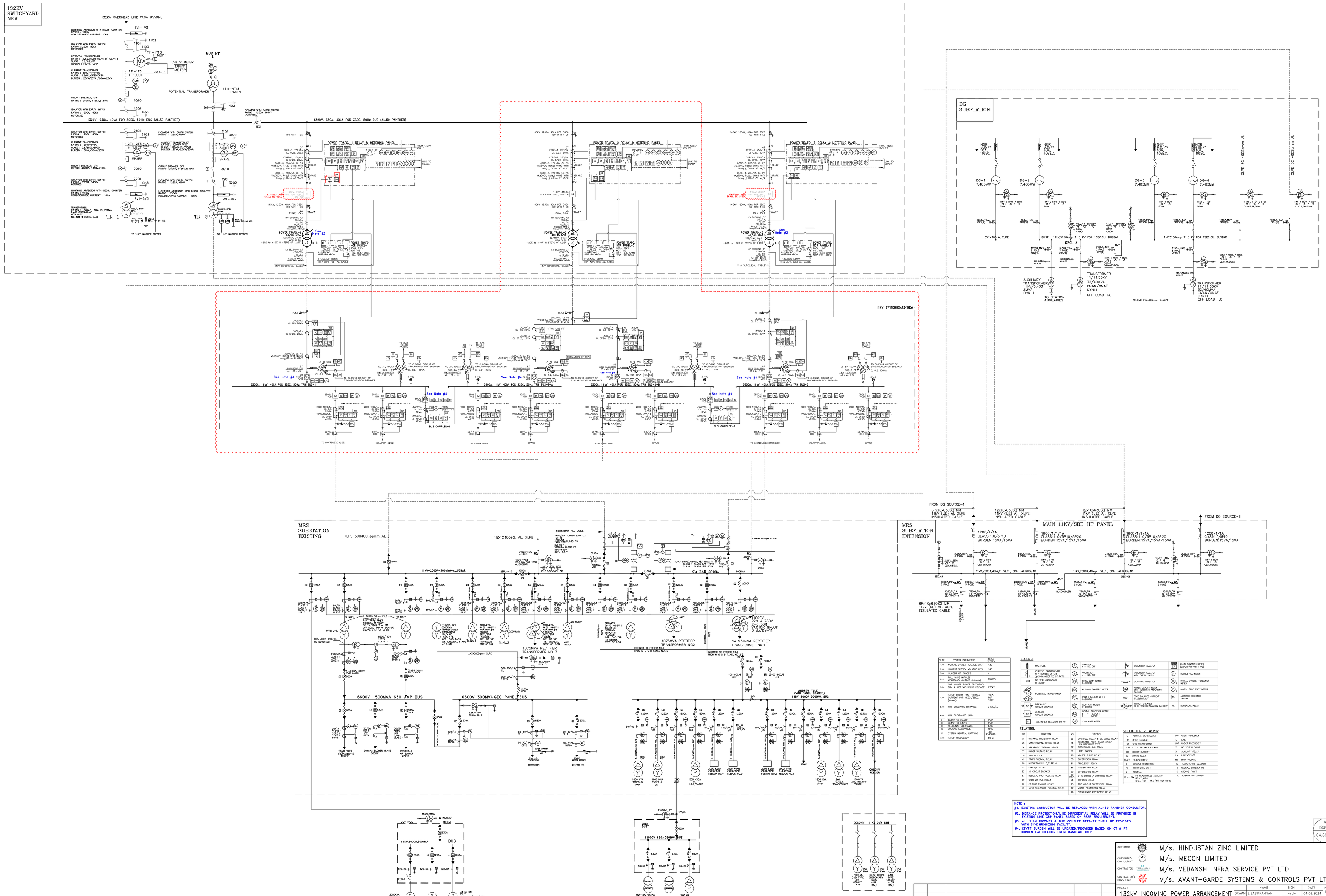
132KV SWITCHYARD NEW
132KV OVERHEAD LINE FROM RVVPNL
132kV, 630A, 40kA FOR 35SEC, 50Hz BUS (AL.59 PANTHER)
POWER TRAFO.-1 RELAY & METERING PANEL
POWER TRAFO.-2 RELAY & METERING PANEL
POWER TRAFO.-3 RELAY & METERING PANEL
11kV SWITCHBOARD(NEW)
3500A, 11kV, 40kA FOR 35SEC, 50Hz TPN BUS-1
3500A, 11kV, 40kA FOR 35SEC, 50Hz TPN BUS-2-A
3500A, 11kV, 40kA FOR 35SEC, 50Hz TPN BUS-2-B
3500A, 11kV, 40kA FOR 35SEC, 50Hz TPN BUS-3
BUS COUPLER-1
BUS COUPLER-2
DG SUBSTATION
DG-1 7.405MW
DG-2 7.405MW
DG-3 7.405MW
DG-4 7.405MW
TRANSFORMER 11/11.55KV 32/40MVA ONAN/ONAF DYN11 OFF LOAD T.C
AUXILIARY TRANSFORMER 11KV/0.433 2MVA DYN 11
TO STATION AUXILARES
MRS SUBSTATION EXISTING
MRS SUBSTATION EXTENSION
MAIN 11KV/SBB HT PANEL
11kV,2500A,40kA/1 SEC., 3Ph, 3W BUSBAR
6600V 1500MVA 630 AMP BUS
6600V 300MVA GEC PANEL BUS
1075MVA RECTIFIER TRANSFORMER NO.2
14.931MVA RECTIFIER TRANSFORMER NO.1
11000V/110V
11000V 630A 250MVA BUS
COLONY 11KV O/H LINE
LEGEND:
RELAYING:
SUFFIX FOR RELAYING:
NOTE :
#1. EXISTING CONDUCTOR WILL BE REPLACED WITH AL-59 PANTHER CONDUCTOR.
#2. DISTANCE PROTECTION/LINE DIFFERENTIAL RELAY WILL BE PROVIDED IN EXISTING LINE CRP PANEL BASED ON RSEB REQUIREMENT.
#3. ALL 11kV INCOMER & BUS COUPLER BREAKER SHALL BE PROVIDED WITH SYNCHRONIZING FACILITY.
#4. CT/PT BURDEN WILL BE UPDATED/PROVIDED BASED ON CT & PT BURDEN CALCULATION FROM MANUFACTURER.
A ISSUE 04.09.24
CUSTOMER M/s. HINDUSTAN ZINC LIMITED
CUSTOMER'S CONSULTANT M/s. MECON LIMITED
CONTRACTOR M/s. VEDANSH INFRA SERVICE PVT LTD
CONTRACTOR'S CONSULTANT M/s. AVANT-GARDE SYSTEMS & CONTROLS PVT LTD
PROJECT 132kV INCOMING POWER ARRANGEMENT FOR ROASTER-6 PROJECT AT ZSD
DRAWN S.SASIKKANNAN -sd- 04.09.2024
CHKD. F.ABDUL KAREEM -sd- 04.09.2024
APPD. B.MAGESH -sd- 04.09.2024
DEPT EL
CODE 900
FIRST ANGLE PROJECTION
SCALE NTS
WEIGHT (Kg)
REF. ASSY. DRG. NO.
TITLE 132kV SUBSTATION OVERALL SINGLE LINE DIAGRAM
DRAWING NO. 0-2023314-900-0654 SH 1 OF 1
REV 0
CAD DRAWING NO. 20233140654
REV. NO. DATE DESCRIPTION REV. BY CHD. BY APPD. BY
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ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED
SIZE: A0
THIS IS A CAD FILE - DO NOT MAKE ANY CORRECTIONS MANUALLY