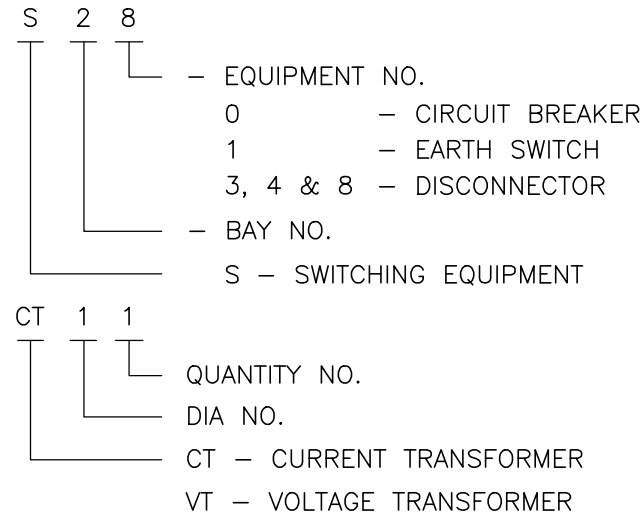


**NOTE:**

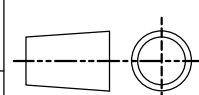
1. 6NO'S EXISTING 220KV SURGE ARRESTERS TO BE RELOCATED NEAR BY 200MVA TRANSFORMER (400KV SWITCHYARD AREA).
2. THE TWO 100MVAR, 400KV, OHL SHUNT REACTOR ARE PRESENTLY LOCATED IN EMBAKASI SUBSTATION, THESE SHUNT REACTORS TO BE SHIFTED IN ISINYA SUBSTATION AND FIX MARIKANI LINE-1 & 2.

— PROPOSED  
 (---) FUTURE  
 --- EXISTING

## 1. 220kV SYSTEM



1. ISINYA 400/200KV SUBSTATION - 400KV SINGLE LINE DIAGRAM  
DRG NO: PB-KET-2012-D-221-P1.

|  |    |   |   |
|--|----|---|---|
| CUSTOMER   |    | KENYA ELECTRICITY TRANSMISSION<br>COMPANY LTD., KENYA   |   |
| FINANCED BY  |    | THE WORLD BANK<br>IBRD - IDA  |   |
| CONSULTANT   |    | LAHMEYER INTERNATIONAL GMPH   |   |
| CONTRACTOR   |    | NATIONAL CONTRACTING CO. LTD.<br>TRANSMISSION & DISTRIBUTION DIVISION<br>P.O.BOX-90, AL-KHOBAR 31952<br>KINGDOM OF SAUDI ARABIA |   |
| PROJECT<br>EASTERN ELECTRICITY HIGHWAY PROJECT<br>(SUBCOMPONENT A4 - SYSTEM REINFORCEMENT)<br>CONSTRUCTION OF ISINYA 400/220kV SUBSTATION<br>AND ATHI RIVER AND NAIROBI NORTH<br>SUBSTATION EXTENSIONS |    |   |   |
| CONTRACT No: KETRACO/PT/009/2013   |    |   |   |
| TITLE<br>400/220kV ISINYA SUBSTATION<br>- SINGLE LINE DIAGRAM (220kV SIDE)   |    |   |   |
| DRAWN  | PA | DATE:<br>13.11.2014   |  |
| CHECKED  | DG | SCALE:  |   |
| APPROVED   | VT | NTS   |   |
| PASSED   | VK | SHEET No.   |   |
|  |    |   | 2 OF 2  |
| DRG. No. 0092013-QH-7000-R-1001  |    |   | REV. B  |