

SYSTEM PARAMETERS

Sr. No.	DESCRIPTION OF PARAMETERS	SYSTEM RATING
01	NOMINAL SYSTEM VOLTAGE (KV)	66
02	HIGHEST SYSTEM VOLTAGE (KV)	72.5
03	BASIC INSULATION LEVEL (KVP) (1.2/50micro Sec.)	325
04	SYSTEM FAULT LEVEL	31.5 KA FOR 3 SEC
05	SYSTEM NEUTRAL EARTHING	SOLIDLY EARTHED
06	SYSTEM FREQUENCY (Hz)	50
07	BUS CONFIGURATION	SINGLE MAIN BUS
08	NO. OF PHASES	3
09	NOMINAL CREEPAGE DISTANCE (ALTITUDE CORRECTION FACTOR OF 1.32 TO BE CONSIDERED)	25mm/KV
10	MIN. CLEARANCE AT ALTITUDE 2300 MTRS (CORRECTION FACTOR 1.14 CONSIDERED)	500mm
	PHASE-PHASE CLEARANCE	790mm
	PHASE-EARTH CLEARANCE	700mm
	SECTION CLEARANCE	4100mm

LEGEND:-
66KV SWITCHYARD EQUIPMENT'S

LEGEND	DESCRIPTION	QUANTITY
●	LIGHTNING ARRESTER 60KV, 10KA, CL-2.	12 NOS.
■	POTENTIAL TRANSFORMER $\frac{66000V}{\sqrt{3}} / \frac{110V}{\sqrt{3}}$ 1 CORE	09 NOS.
■	POTENTIAL TRANSFORMER $\frac{66000V}{\sqrt{3}} / \frac{110V}{\sqrt{3}}$ 2 CORE	03 NOS.
○	66KV CURRENT TRANSFORMER 400-200/1-1-1-1A, 4 CORE.	12 NOS.
□	CIRCUIT BREAKER 72KV, 1250A, 31.5KA FOR 3SEC, SF6	04 SET.
11111	ISOLATOR 1250A, 31.5KA FOR 3 Sec DOUBLE BREAK ISO MOTOR OPERATED WITH 1ES	24 NOS.
11111	POWER TRANSFORMER 11/66KV ONAN/ONAF, Yyn0d11, 7.5MVA, 50HZ, OLTC ±7.5% IN STEPS OF 2.5%	02 SET.
11111	POWER TRANSFORMER 11/66KV ONAN/ONAF, Yyn0d11, 15MVA, 50HZ, OLTC ±7.5% IN STEPS OF 2.5%	01 SET.
11111	AUXILIARY TRANSFORMER 11/433KV 100KVA, 50HZ.	01 SET.

APPROVAL



KENYA ELECTRICITY
GENERATING COMPANY
LIMITED

SIGNATURE:

1. AS MGT	2. PROJECT	3. CHECKED BY	4. APPROVED BY	5. DATE	6. DATE	7. DATE	8. DATE	9. DATE	10. DATE	11. DATE	12. DATE	13. DATE	14. DATE	15. DATE	16. DATE	17. DATE	18. DATE	19. DATE	20. DATE	21. DATE	22. DATE	23. DATE	24. DATE	25. DATE	26. DATE	27. DATE	28. DATE	29. DATE	30. DATE	31. DATE	32. DATE	33. DATE	34. DATE	35. DATE	36. DATE	37. DATE	38. DATE	39. DATE	40. DATE	41. DATE	42. DATE	43. DATE	44. DATE	45. DATE	46. DATE	47. DATE	48. DATE	49. DATE	50. DATE	51. DATE	52. DATE	53. DATE	54. DATE	55. DATE	56. DATE	57. DATE	58. DATE	59. DATE	60. DATE	61. DATE	62. DATE	63. DATE	64. DATE	65. DATE	66. DATE	67. DATE	68. DATE	69. DATE	70. DATE	71. DATE	72. DATE	73. DATE	74. DATE	75. DATE	76. DATE	77. DATE	78. DATE	79. DATE	80. DATE	81. DATE	82. DATE	83. DATE	84. DATE	85. DATE	86. DATE	87. DATE	88. DATE	89. DATE	90. DATE	91. DATE	92. DATE	93. DATE	94. DATE	95. DATE	96. DATE	97. DATE	98. DATE	99. DATE	100. DATE
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CONDUCTOR TYPE:

1. MAIN BUS	ACSR TWIN ZEBRA
2. EQUIPMENT INTER CONNECTION FOR 66KV	2.5" CU TUBE
3. EQUIPMENT INTER CONNECTION FOR 11KV	2" CU TUBE

11KV SWITCHYARD EQUIPMENT'S

LEGEND	DESCRIPTION	QUANTITY
●	LIGHTNING ARRESTER 9KV, 10KA	09 NOS
11111	ISOLATOR 1250A, 25KA FOR 3SEC	09 NOS
□	CABLE SEALING END	15 NOS
•	BUS POST INSULATOR	09 NOS

LEGEND:-

- PRESENT SCOPE
- FENCE
- LIGHTNING MAST - 1
- LIGHTNING MAST - 2

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- SEPTIC TANK DETAILS:
CAPACITY : 3000 LITRES
DIMENSIONS: DIA 1500 mm, HEIGHT 2000 mm
MATERIAL : POLYETHYLENE, BLACK COLOUR
MAX. USERS: 10-15

