TIC of LV electrical installation

Part - 2: Supply characteristics and earthing arrangement

Section - 1:Mains incoming

System earthing: TN-C

Brief note (in case of confusion): wewe
Number and type of live conductors: AC

Brief note: 54545454

AC: 1-phase

Nature of supply param eters	R-Y	R-B	Y-B	R-N	Y-N	B-N	R-PE	Y-PE	B-PE
Nominal voltage U/U0 (V)	45.00	45.00	4.00	54.00	5.00	45.00	454.00	545.00	4.00
Nominal Frequency f (HZ)	4.00	5.00	4.00	545.00	454.00	5.00	45.00	4.00	54.00
Prospective fault current lpfc (kA)	54.00	54.00	5.00	45.00	4.00	5.00	45.00	45.00	54.00
External Loop Impedance Ze ()	5.000	5.000	4.000	5.000	45.000	4.000	54.000	5.000	454.00 0

Incoming (supply) protective device characteristics

Type of Over Current Protective Device: 5

Rated current (A): 5

Current for disconnection with in 0.2 seconds: 5

Section - 2:Alternative source of supply

System earthing: TN-C
Brief note (in case of confusion): wewe
Number and type of live conductors: AC

Brief note: 54545454

Availability of alternate supply: Yes

Number of alternate sources of supply: Yes

Alternate supply no: 212121

Short name of alternate supply: 21
System earthing: TT

Number and type of live conductors: AC Brief note: 2

AC: 1-phase, 3-wire (LLM)

Nature of supply param eters	R-Y	R-B	Y-B	R-N	Y-N	B-N	R-PE	Y-PE	B-PE
Nominal voltage U/U0 (V)	655165 .00	56.00	56.00	54.00	654.00	65.00	6.00	65.00	6.00
Nominal Frequency f (HZ)	165.00	1.00	651.00	65.00	165.00	16.00	51.00	65.00	16.00
Prospective fault current lpfc (kA)	51.00	65.00	1.00	51.00	5.00	1651.0 0	651.00	51.00	65.00
External Loop Impedance Ze ()	65.000	16.000	5.000	651.00 0	65.000	6.000	NA	6165.0 00	65.000

InstalledCapacity: 6

Actual Load Current (R,Y,B, N): 5655,6,655,NA

Incoming (supply) protective device characteristics

Type of Over Current Protective Device: 651
Rated current (A): 651
Current for disconnection with in 0.2 seconds: 656
Brief note (in case of confusion): 565

Alternate supply no : 16

Short name of alternate supply: 5

System earthing: TN-C
Number and type of live conductors: AC

Brief note: 6

AC: 1-phase, 3-wire (LLM)

Nature of supply param eters	R-Y	R-B	Y-B	R-N	Y-N	B-N	R-PE	Y-PE	B-PE
Nominal voltage U/U0 (V)	165166 56.00	46.00	54.00	654.00	6.00	6.00	6.00	6.00	65.00
Nominal Frequency f (HZ)	46.00	5.00	66.00	121.00	21.00	21.00	2.00	12.00	12.00
Prospective fault current lpfc (kA)	2.00	1.00	21.00	21.00	21.00	2.00	12.00	2.00	1.00
External Loop Impedance Ze ()	21.000	21.000	2.000	2.000	1.000	2.000	21.000	2.000	12.000

InstalledCapacity: 12

Actual Load Current (R,Y,B, N): 2,2,12,1

Incoming (supply) protective device characteristics

Type of Over Current Protective Device: 22

Rated current (A):

Current for disconnection with in 0.2 seconds: 22
Brief note (in case of confusion): 121

Section - 3:Particulars of installation referred in the report

Maximum demand kVA: 455

Maximum load: 45

Means of earthing : Suppliers Facility

Type of earth electrode : Horizontal Material of earth electrode : Copper

No of Locations:

Location No	Location Name	Electrode resistance to earth in ()	Electrode resistance to grid ()
4554	54	5	454
545	5	45	4
5	5	4	5
5	4	454	5

Section - 4:Details of main protective conductor

Size of earthing conductor: 44 Material of earthing conductor: 4 Earthing conductor continuity and connection Yes verified: Size of main protective bonding conductor: 455 Material of main protective bonding conductor: 45 Main protective bonding conductor continuity and connection verified : No Type of joints (impairing safety): 545 No of joints: 4

Location	Joint No	Joint resistance ()
45	45	45
5	45	4
54	54	54
5	54	4554

Size of main protective earthing conductor: 5

Material of main protective earthing conductor: 4

Main Protective Conductor continuity and connection verified: 7

Type of Joints: 545

No of Joints: 4

Location	Joint No	Joint resistance ()
454	54	54
54	54	54
545	4	5454
54	54	5

Section - 5: Details of main switch or circuit breaker

Location:	6464
Type:	ACB
No of poles:	646
Current Rating:	4
Voltage Rating:	5465
Fuse Rating or Settings:	4654
Rated residual operating Current In:	654
Rated residual operating time @In Tn:	5
Rated residual operating time @In Tn:	5

Location: 5 ACB Type: No of poles: 5 Current Rating: 545 Voltage Rating: 45 Fuse Rating or Settings: 465 Rated residual operating Current In: 46 Rated residual operating time @In 5465