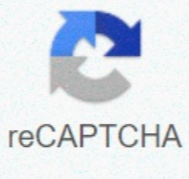




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## Minimum insulation resistance value acceptable for transformer

The resistance offered by the ground electrode to the current flow in the ground is known as Earth resistance or Earth resistance. Ideally a ground resistance should be zero ohms, but it is increasingly zero .system ground resistances can be reducing by the use of a number of individual electrodes connected together. The total resistance of grounding is the sum of the resistance of ground lead wires, contact resistance between the surface of the ground electrode and the soil body resistance surrounding the ground electrode. The value of ground resistance varies on soil type, soil characteristic, soil resistivity and climate condition. The soil moisture content plays a vital role in soil resistivity. The value of the resistance to the individual ground pit is not so important. Different codes specify the required value of the grounding system. Electrical systems can work with the Earth resistance of 20 ohms, although generally 10 ohms is the specified maximum limit. But communication systems need very strict limits, typically one ohm. This is because the greater the ground resistance, the higher the noise interference in the systems. USAID A) Power stations (generating station) 0.5 ohms B) Sub-station EHT 1.0 Ohms c) 33 stations Kv 2,0 ohms D) D / T Structure 5.0 ohms E) Tower Foot Resistance 10.0 Ohm IEEE Standard 142 Chapter: 4.1.3, Page 164 for substations and industrial plants and large commercial plants. 1 ") A 5 4" | The resistors below 1 ohms can be obtained using a number of individual electrodes connected together. Such low resistance is only necessary for large substations, transmission lines or generator stations. Chapter National Electric Code (NEC) 2011, (is SP30 Chapter 14 -India) Chapter: 3.0.9 Unless otherwise specified, it is recommended that the value of any resistance to the ground system is not greater than 5 people © is 3043 (India) Chapter: 22.2.3 The resistance to the continuity of the Earth's return journey through the Earth network should be maintained as low as possible and in no case greater than 1 © applicable for the main network connected to the transformer / return paths of the oil route of the India security industry management (STANDARD OISD â€ "137) Chapter: (7. II. B) Â The permissible ground resistance values are allowed, the resistance value of a grounding system to the general mass of the earth should not exceed. For electrical installations and metal structures. 4 " For storage tanks. 7 " For the main grid of the land and bonding connections between joints in pipelines and associated structures. 7 For each electrode to the general massEarth 2 ") Â 2309 (India) / BS 7430: Clause 1998: 12.3.1 Page 32, Resistance to lightning arrests of the earth ground resistance for the protection of buildings and allied structures is 10" Â © an electrode of Earth must be connected to each DOWN conductor. Each of these lands should have a resistance not exceeding the product supplied by 10 a multiplied number for the number number Ground electrodes to provide. The entire lightning protection system, including any earth ring, should have a combined resistance to the earth not exceeding 10 © without taking into account any connection. If the value obtained for all lightning protection systems exceeds 10 © © , a reduction can be obtained by extending or adding to the electrodes or interconnecting the individual earth terminations of Down conductors by a conductor installed under ground, sometimes referred to as a ring conductor is 2689: 1989 Table 4 Page 28 (March 2010 re-affirmed) Lightning Arrestori The ground resistance for the protection of allied buildings and structures is 10 © NEC 250.56 Clause: 250.53 Installation of the grounding electrodes system. The maximum resistance for a single electrode consisting of a rod, tube or plate, 25 © If a higher resistance is obtained by a single electrode, a second electrode of any type specified in the NEC is required. This should not be interpreted to mean that 25 ohms is a satisfactory resistance value for a grounding system. IEEE STD 90-2000 (revision of IEEE STD 80-1986) The evaluation of soil resistance for most transmission and other large substations, soil resistance is usually about 1 © or less in smaller distribution substations, the usual acceptable range is 1 © © A 5 © NFC 17-102, July 1995 that the measured resistance value using conventional equipment should be any measurement © or less this insulation component IEC 62305-1 Edition 2.0 â€ "2010-12 The impedance of conventional grounding relating to the Earth's termination system is (\* for soil resistivity less than or equal to 100 © © © ) 4 © Ministry of Railways - Government of India Earth resistance acceptable on the Meeber bus bar of the earth should not be more than 1 ") To achieve this value more than one land can be installed if necessary, depending on the resistivity of the soil. In places where the space is not available to provide parallel ground wells therefore can be provided longer ground rods. The longer ground bars so provided should be in multiples of three meters. The combined resistance of the grounding system should not be higher than the traction substation of the following values 0.5 ") switching station 2" | transformer station 10 " auxiliary transformer station 10" | Max values of the ground resistance specified for grounding of signaling and telecommunications The equipment is as under the telegraph and blocking tool Using the Earth's return circuit 10 I © Earth For Overvoltage Arrests / Training10 Â © Â © MetarThing of Signaling Equipment 10 Â2 Â © MetarThing of Signaling Cable Screen in AC Electrified Areas 10 Â © Â © MearurThing of Telephone Exchange 5 Â © grounding cable of the sheathed aluminum telecommunication cable in Electrified area AC 1 Â © grounding equipment in VF repeater stations and cable huts. 5 Â © Axle Counter Cable Screamed in AC Electronic Area 1 Â © Â © Electronic Interlocking Installation 1 Â2 © integrated integrated Power supply system and its individual modules 2A© © Digital counter of EJB axes and its housing of the appliance connected to the same ground All cable reinforcement connected to the same ground. 1A© Digital axis counter recovery box connected to the ground (inside) near the SM room. 1A© Railway Vikas Nigam Limited RVNL/Elect/GS/11 The ground continuity test of metal enclosures must be done for electrical continuity. The electrical resistance of the same, together with the ground conductor, excluding any added resistance of the differential switch, measured by the connection with the sink at any point of the ground conductor in the completed installation, shall not exceed 1. No sink must have a resistance greater than 5. Resistance can be up to 8A© Places with more than one sink must be connected in parallel to reduce the resistance. MANUAL OF STANDARDS & SPECIFICATIONS FOR RAILWAY ELECTRIFICATION RDSO/SPN/197/2008 EquipmentÂ€Â€Â€ with solid state components which are more susceptible to damage due to surges, transients and over voltages being encountered in the system due to lightning, sub-station switching such as Electronic Interlocking, Integrated Power supply equipment, Digital Axle counter, Data logger etc. shall Value of earth resistance shall not be more than 1AÂ© For conventional signaling equipmentÂ€Â€Â€ the earth resistance shall not be more than 10AÂ© DHASHIN HARYANA BIJALI VITRAN NIGAM (DHBVN) Specification no CSC-140 / DH/UH/P&D Hose hold Earthing (3KA)

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