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| **FORMAT FOR ELECTRICAL SAFETY AUDIT REPORT**  **FOR ALL BUILDINGS** |
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| **Branch/office Code & Name** |  |
| **Address** |  |
| **BM Name/Empl Nos** |  |
| **Sanctioned load** | **------------ KW/ KVA** |
| **Connected load** | **-------- KW/ KVA** |
| **Monthly amount of energy bill (Approx.)** | **Rs……………/- per month** |
| **Total tonnage of Air conditioners in branch/office** | **---------- TR ( Tonnage of Refrigeration)** |
| **Area of the Branch** | **Sq. feet/ Sq. Metres)** |

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| **Sr.No** | **Description** | **Details** | **Remarks** |
| 1 | Whether MCCBs / MCBs/ELCBs are provided with proper rating to cater the load. Check for loose/broken neutral at incomer. The incomer panels thermography report. | **YES/NO** |  |
| 2 | Whether the Branch is provided with facility(switch) to switch off the premises power supply at close hours in branch before leaving the premises(if no to be provided immediately )auditor to ensure compliance. | **YES/NO** |  |
| 2 | Whether light and emergency light are provided in electrical rooms/operating areas for easy operation & maintenance works | **YES/NO** |  |
| 3 | Whether Pump room, DG set room, UPS room, electrical room etc. are maintained dry and in good condition and obsolete /hazardous / old items are not dumped there. | **YES/NO** |  |
| 4 | Whether Water Seepage is observed near any of the Electrical Panel, Distribution Boards, Electrical equipment etc. | **YES/NO** |  |
| 5 | Whether Earthing pits are provided and connected to the equipment Body of the connected equipment.. | **YES/NO** |  |
| 6 | Whether the Earthing Pits are properly maintained and earth values<1megaohm | **YES/NO** |  |
| 7 | Whether proper exhaust fan for ventilation of panel room/electrical room/ UPS room is provided and paper, old material or any other scrap kept near DB/Panels/ UPS/ Batteries etc. are not kept there. | **YES/NO** |  |
| 8 | Whether penalty is being imposed in electricity bills on account of higher load/ poor power factor etc. (It may be ascertained from the electricity bill of April / May/ June/ July). Additional electrical load required if any (from Power Distribution company). | **YES/NO**  **-------KW** |  |
| 9 | Whether Load is distributed in all three phases to avoid unbalancing of phases and no loose electrical connections/haphazard wirings observed in the Branch/ office premises | **YES/NO** |  |
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| 10 | Whether isolating switches are provided for the switching off of the non-essential loads premises during night and main switch to switch off the power supply to the Branch in case of fire/ emergency. | **YES/NO** |  |
| 11 | Whether electrical equipments of Pantry etc. are properly connected to Iron socket box with MCBs. MCBs or latest type switches are provided to switch on/ off the ACs and protect them from Overload. | **YES/NO** |  |
| 12 | Whether Proper preventive maintenance after opening of Panel boards and distribution Boards are carried out by the license holder Electrician or skilled technicians of Equipment manufacturers/ service providers. | **YES/NO** |  |
| 13 | Whether Appropriate timers used in the changeover of Air conditioners for server room ACs and for Signage Boards to make auto ON/OFF (for schedule timings). The thermostat of AC’s at server rooms should be set to say 30 degree centigrade so they are not run only when the temperature is too high ( to minimize chances of fire due to idle running of ACs during the night) | **YES/NO** |  |
| 14 | Whether Preventive Maintenance of electric installation and equipment is carried out by skilled license holder electricians / skilled technician | **YES/NO** |  |
| 15 | General Condition of electrical control panel, Main Switch, Electric Meter Board and change over switch, ACs, water cooler, water filter, wiring, cables etc. is good and all DB'S, Panels, switch boards are Properly covered | **YES/NO** |  |
| 16 | Whether the contact numbers of persons, electricians, power distribution company, Generator service provider, vendor, UPS vendors, ACs etc. are available with Accountant/ Security guard and other staff and they are displayed in Electric room/ UPS room? | **YES/NO** |  |
| 17 | Whether the Power factor Panel of appropriate rating is installed. | **YES/NO** |  |
| **18.** | **FIRE PREVENTION MEASURES** |  |  |
| (i) | All old disposable records, broken furniture etc. accumulated at the premises at the premises have been cleared. | **YES/NO** |  |
| (ii) | Combustible leaf, litter/waste papers etc in and around the branch is removed/cleaned periodically. | **YES/NO** |  |
| (iii) | No Stationary/Records/old obsolete items are stored/kept in the System/UPS room. | **YES/NO** |  |
| (iv) | Storage racks in Stationery/Record room kept at a safe distance of at least 3 ft from electrical points/switch/junction boxes. | **YES/NO** |  |
| (v) | In the pantry/canteen LPG is used(Yes/No) | **YES/NO** |  |
| **19** | **SERVER AND UPS ROOM** |  |  |
| (i) | Server Room  Server room have dual AC units having timer circuit device with independent circuit. | **YES/NO** |  |
| (ii) | Whether Exhaust fan installed in UPS Room | **YES/NO** |  |
| **20** | **ELECTRICAL SAFETY** |  |  |
|  | Power supply to Record/Stationary room is made through Plug and Socket arrangement? | **YES/NO** |  |
| **21** | **FIRE PROTECTION/FIRE CONTROL EXTINGUISHERS AND FIRE ALARAM SYSTEM** |  |  |
|  | Are fire extinguishers available in the following area and clearly marked and accessible?  A. System/UPS Room: CO2(3 Kg/4.5 Kg) X2  B. Banking Hall: Water CO2 type  C. Stationary Room: Water CO2 type | **YES/NO** |  |
| **22.** | **DG SET/GENERATOR IF PROVIDED OWENED/RENT** |  |  |
|  | At least two 6 kg ABC capacity fire extinguishers are placed near the Diesel Generator | **YES/NO/NA** |  |
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**Energy Audit**

* Sanctioned load and utilized load.(Billing Demand)
* Electricity Consumption for financial year period (eg: 01.04.2024 to 31.03.2025) and comparison with previous year.
* Corresponding meter readings also to be recorded.
* Energy Bill analysis for 12 moths including tariff analysis.
* Illumination and lighting lux levels, type of fixtures LED.
* Identification of energy savings opportunities: list of all equipment’s, gadgets, UPS, AC pumps, heaters etc. installed in premises.
* AC star rating or ISEER ratings, type of gas enviro-friendly (R410 or R 404), any machine still with R-22 to be specifically mentioned.

**Signature**

**Name of Electrical Engineer/ Consultant/ Contractor**

**Supervisor’s Valid License No.**

**(In case of Electrical Contractor) Contractor’s License**

**Contact No:-**

Date:

Place:

**Only where HT (11kv/33kv substation is in premises)**

**ANNEXURE-II-A**

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| **ADDITIONAL POINTS FOR BUILDINGS HAVING OWN H.T. SUBSTATION** | | | | |
|  |  | | | | | |  | |  |
| **Name of Branch/Office/Building** | |  | | | |
| **Address** | |  | | | |
| **Billing Demand** | | **------KW/KVA** | | | |
| **Maximum Demand (MD) of (preferably April / May / June months)** | | **KW/KVA** | | | |
| **Power factor and Peak Load as mentioned in the electricity bill (preferably April / May / June months)** | | **P.F:**  **Peak Load:** | | | |
| **Capacity of substation and voltage:** | | **--------- KVA**  **--------KV** | | | |
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| **S.No** | **Description** | | **Details** | **Remarks** | | | |
| 1 | Whether the permission for Sub-Station and DG Sets,Electric shock treatment chart, Electrical& Fire safety Charts, Single line diagram etc.are displayed in substation | | **YES/NO** |  | | | |
| 2 | Whether emergency contact numbers of Fire station, Health center, Power Distribution Co., main contractor etc are displayed at substation and control room | | **YES/NO** |  | | | |
| 2.1 | Whether electrical danger plate (fig of skull & cross bones, 11KV/33KV/440V/230V) is provided on Main Electrical Panel / electrical room / operating areas | | **YES/NO** |  | | | |

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| 3 | Safety Materials like Fire extinguishers, Sand buckets, Rubber Mats, Hand Gloves, First aid box etc. are available in substation? | **YES/NO** |  |

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| 4 | Whether the inspection of substation/DG Set/Lifts is done by the Concerned Electrical Inspector at least once in a year and the required inspection fees paid well in time? | **YES/NO** |  |
| 5 | Whether the observations by Electrical Inspector during his last visit have been attended? Date of his compliance report. | **YES/NO** | Copy of letters in this regard should be enclosed |
| 6 | Whether Preventive Maintenance of Breakers, Transformer, , HT & LT Panels etc. is carried out as per schedule and the contract for maintenance of Transformer/Breakers/ Panels etc. are given to respective manufacturer/ service Providers? | **YES/NO** | Attach the report |
| 7 | Whether   1. The maintenance Contractor has “A” Class Electrical contractors license and comply the requirement of the guidelines of the Concerned State/ Central Govt.? 2. The Workmen/ Technicians possess the wireman/ electrician/s license? | **YES/NO** | Copies should be available with the concerned official |
| 8 | In case of outdoor substation,  (i) Whether the stone gities provided in substation yard?  (ii) Whether the Substation structure fencing boundary is provided, painted and well maintained? | **YES/NO** |  |
| 9 | Whether Earthing Test reports are provided by the Electrical Contractor / Maintenance contractor?  Whether Proper nomenclature and painting is done on Electric Panels and Earthing pits? | **Yes/No** |  |
| 10 | Whether Transformer oil level and breather condition is checked at least once in a week?  Check last date of transformer oil BDV test and confirm the BDV value whether it is permissible or not? | **YES/NO** |  |
| 11 | Whether mechanical and electrical interlocks of critical equipment are provided and maintained in working condition?  Operating manuals for critical equipment like transformer, breakers should be available at site? | **YES/NO** |  |
| 12 | Whether Automatic Power Factor Control (APFC) Panel is provided and Power Factor value is maintained higher than prescribed value (say 0.90. It may be confirmed / verified from the electricity bill & APFC Panel meter) | **YES/NO** |  |
| 13 | Whether Lightening Arrestor and Aviation light is provided ( Applicable only in case of Multi storied Building) | **YES/NO** |  |
| 14 | Whether the Maintenance staff wear shoes and they are well mannered and well dressed | **YES/NO** |  |
| 15 | Whether Some training/ Meeting with Maintenance Staff is conducted for discussion on energy conservation opportunities, challenges in Electrical safety etc. | **YES/NO** |  |
| 16 | Thermography: Observations on thermo graphic images at Electric Panels, Distribution Boards.  (Please also upload the thermo graphic images on the system) |  |  |
|  |  |  |  |

**Signature**

**Name of the Auditor:**

**Name of Agency:**

**Supervisor’s Valid License No.**

Date:

Place