ELECTRICAL AUDIT / INSPECTION FORM FOR BRANCHES (INCLUDING ONSITE ATM), OFF SITE ATM & ADMINISTRATIVE OFFICES

NAME OF BI	RANCH	/ OFFIC	CE:				DATE OF	VISIT	:
Total Brand KW Per Pha									
Phase I (KW)	<u> </u>		Phase I	I (KW)		Pł	nase III (KW)		
				1					
Whether Loa	ad is ba	lance d	or unbala	nced	:		YES/NO		
If Load is un	balance	ed Rec	tification t	to be dor	ne :_				
Total Load	of the E	Branch							-
Rooms	Tube Light	Fan	Cooler	Water Cooler	PC	Printer	Cash Counting Machine	AC	UPS
Banking Hall									
Customer's Hall									
Strong Room									
Manager's Cabin									
Server Room									
Staff Room									
Canteen									
Stationery Room									
Toilets									
Any Other Room 1				_					
Any Other Room 1									
Any Other Room 2									
Total Load									
Audit /Inspe	ction C)hserv	atione						
	scription		ations		Obs	servation			
1 Gor	ndition	of N		stribution					
			bution Bo						

		installation to be checked for	
		required insulation and current carrying capacity. Condition of	
		wiring with specific remark	
		Note: Bunching of wires to be	
		avoided & Proper clamping of	
		conduits with wires to be done in	
		the wall	
	3	Loose connection & hanging wires.	
	4	Heavy Duty contact points to be checked for the firm connection to	
		avoid overheating and minimize	
		power loss.	
	5	Condition of the fuses / main switches.	
		Note:If Branches are provided with	
		old switches and boards it can be	
		replaced with MCB's and	
		Distribution Boards of suitable capacity.	
	6	Whether any single plug point used	
		for various power applications by	
		means of any extension board.	
		Note: For avoiding overloading of	
		Circuits.	
	7	Non provision of MCB / Circuit	
		Breakers of adequate capacity.	
		Note : Incoming and individual	
		outgoing MCB's / switches to be	
		rated with proper capacity	
	8.	Condition of neutral wire / earthing	
		Note: Check for any loose	
		connection	
	9	Details of Connected Load	
	10	Sanctioned Load (By State	
		Electricity Board) (in KW) Present	
		Load (in KW) If the available Load	
		is more than the sanctioned load then the additional equipments	
		which are connected are to be	
		ensured that the wiring / switches /	
		MCBs provided is capable of	
		withstanding additional load. This is the root cause of fire accidents.	
1	11	Power Consumption in excess of	
V		1.01	
\$13	Jel (
A AND TO THE		011/	

	12	Check for availability of measuring instruments in the Control Panel	
		viz. Voltmeter, Ammeter,	
		Frequency Meter, Power Factor	
		Meter, Energy Meter for its calibration to measure electricity.	
	13	Earthing:	
		(a) UPS Earthing- Value in ohms.	
		(b) Raw power Earthing- Value in	
		ohms.	
		(c) No: of earth pits	
		Note:UPS and Raw Power should have separate Earthing.	
	14	Total UPS Load:-	
		(a) Total no of UPS with capacity	
		(b) UPS panel wiring	
		(c) Whether alternate Nodes are connected to one UPS.	
		(d) Is UPS under AMC with OEM or not?	
		(e) Is whether UPS load balanced? Mention Current in all the three phases.	
		Note : If UPS load is imbalanced, the loads to be balanced in all the three phases.	
	15	UPS Batteries:-	
		(a) No of Batteries	
		(b) Periodicity of servicing	
		(c) Proper ventilation / Exhaust fan provided	
	16	Air-conditioner:-	
		(a) No of Airconditioners working round the clock with Tonnage.	
		(b) Whether separate stabilizer provided for each AC unit	
3	in Ba	(c) Any timer fixed to the AC units	
Modis	TAN EN	and the same of th	
		ank -	
		·	

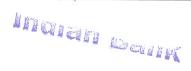
	for alternate functioning.
	(d) Check whether supply for ACs is drawn through power points.
	(e) Date of last servicing carried out.
	(f) Eligible life span of ACs.
	(g) Whether Outdoor units are earthed?
	(h) Whether Ac's are covered in AMCs? If Yes, what is the frequency of Preventive Maintenance in a year?
	Note : Periodic cleaning of AC filters is mandatory.
17	Any Generator provided
	(a) Location
	(b) Capacity (in KVA)
	(c) Periodical maintenance (Whether AMC with OEM or not?)
	(d) Change over switch manual or automatic.

SAFETY QUESTIONER

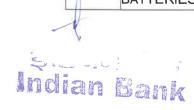
S.NO.	DESCRIPTION	DETAILS	REMARKS
1	WHETHER TPN ISOLATORS / MCCBs / ELCBs / ARE PROVIDED TO CATER THE LOAD	YES / NO	
2	WHETHER LIGHTS AND EMERGENCY LIGHTS ARE PROVIDED IN ELECTRICAL ROOM / OPERATING AREAS FOR EASY OPERATION & MAINTENANCE WORKS	YES / NO	
3	WHETHER PUMP ROOM, DG SET ROOM, UPS ROOM, AC PLANT ROOM, ELECTRICAL PANEL ROOM ARE MAINTAINED IN 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 BOARD, ELECTRICAL EQIPMENT, ETC	YES / NO	
5	WHETHER EARTHING PITS ARE PROVIDED AND CONNECTED TO EQUIPMENT AND THE BODY OF EQUIPMENT	YES / NO	
3	WHETHER EARTHING PITS ARE MAINTAINED PROPERLY	YES / NO	



7	WHETHER EXHAUST FANS FOR VENTILATION OF PANEL ROOM / ELECTRICAL ROOM / UPS ROOM / DG SET ROOM IS PROVIDED AND NO PAPER, OLD MATERIAL OR ANY OTHER SCRAP IS KEPT NEAR DB / PANELS / UPS / BATTERIES ETC.	YES / NO
8	WHETHER PENALTY IS BEING IMPOSED IN ELECTRICITY BILL ON ACCOUNT OF HIGHER LOAD / POOR POWER FACTOR / POOR LOAD FACTOR ETC (ACERTAINED FROM THE ELECRICITY BILLS OF APRIL/MAY/JUNE/JULY) ADDITIONAL ELECTRICAL LOAD REQUIRED (IF ANY)	YES / NO
9	WHETHER LOAD IS DISTRIBUTED IN ALL THREE PHASES TO AVOID ANY UNBALANCING OF PHASE LOAD AND NO LOOSE ELECTRICAL CONNECTIONS / HAPHAZRAD WIRINGS OBSERVED IN THE BUILDING / OFFICE PREMISES.	YES / NO
10	WHETHER ISOLATING SWITCHES ARE PROVIDED FOR SWITCHING OFF OF THE NON ESSENTIAL LOADS IN PREMISES DURING NIGHT AND MAIN SWITCH TO SWITCH OFF THE POWER SUPPLY TO THE BUILDING / FLOOR IN CASE OF FIRE / EMERGENCY.	YES / NO
11	WHETHER PROPER PREVENTIVE MAINTENANCE AFTER OPENING OF THE ELECTRIACL BOARDS AND DISTRIBUTION BOARDS ARE CARRIED OUT BY THE LICENSE HOLDER ELECTRICIAN OR SKILLED TECHNICIANS OF EQUIPMENT MANUFACTURER / SERVICE PROVIDERS.	YES / NO
12	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 THE ACS AT SERVER ROOM SHOULD BE SET TO SAY 26 C, SO THAT IT WILL RUN ONLY WHEN THE TEMPRATURE IS TOO HIGH (TO MINIMIZE CHANCES OF FIRE DUE TO IDLE RUNNING OF THE ACS DURING NIGHT)	YES / NO
13	WHETHER PREVENTIVE MAINTENANCE OF THE ELECTRIC INSTALLTION AND EQUIPMENT IS CARRIED OUT BY SKILLED LICENSE HOLDER ELECTRICIANS / SKILLED TECHNICIANS	YES / NO
14	GENERAL CONDITION OF ELECTRICAL CONTROL PANELS, MAIN SWITCH, ELECTRIC METER BOARD, CHANGE OVER SWITCH, AC, WATER COOLERS, WATER FILTERS, WIRING CABLES ETC ARE IN GOOD CONDITIONS AND DBs, PANELS, SWITCH BOARDS ARE PROPERLY COVERED	YES / NO
15	WHETHER ELECTRICASAFETY L EQUIPMENTS OF PANTRY ETC ARE PROPERLY CONNECTED TO INDUSTRIAL SOCKET BOX WITH MCBs. MCBs OR LATEST TYPE SWITCHES ARE PROVIDED TO SWTICH ON / OFF THE ACs TO PROTECT THEM FROM OVERLOAD.	YES / NO



16	WHETHER THE CONTACT NUMBER OF PERSONS, ELETRICIANS, POWER DISTRIBUTION COMPANY. GENERTOR SERVICE PROVIDER, UPS VENDORS, ACS ETC ARE AVAILABLE WITH SECURITY GAURDS AND OTHER STAFF ARE DISPLAYED IN ELCTRIC / UPS/SERVER ROOM.	YES / NO
17	WHETHER POWER FACTOR CORRECTION PANEL OF APPROPRIATE RATING IS INSTALLED.	YES / NO
18	WHETHER ALL THE CONNECTING POINT AT VARIOUS DBs AND PANELS ARE PROPERLY INSULATED AND PROPER INDICATIVE MARKING ARE DONE ARE THE RESPECTIVE PANEL /DB	YES / NO
19.	WHETHER THE INTERNAL INSULATION OF THE WIRE HAVE BEEN ACCOUNTED FOR CHECKING THE DURABILITY OF ELECTRICAL CONNECTION	YES / NO
20	ALL OLD DISPOSABLE RECORDS, BROKEN FURNITURE ETC ACCUMULATED IN THE PREMISES HAVE BEEN CLEARED.	YES / NO
21	COMBUSTIBLE LEAF LITTER / WASTE PAPERS ETC IN AND AROUND THE BRANCH ARE REMOVED / CLEANED PERIODICALLY	YES/NO
22	NO STATIONARY / RECORDS / OLD OBSOLETE ITEMS ARE STORED / KEPT IN THE SERVER / UPS / ELECTRIC ROOM	YES/NO
23	STORAGE RACKS IN STATIONARY / RECORD ROOM KEPT AT A SAFE DISTANCE OF AT LEAST 2M FROM ELECTRICAL POINTS / SWITCH / JUNCTION BOXES	YES / NO
24	WHETHER IN THE PANTRY / CANTEEN, LPG IS USED	YES / NO
25	ARE THE FIRE EXTINGUISHERS AVAILABLE IN THE FOLLOWING WORK AREA AND CLEARLY MARKED AND ACCESSIBLE: 1. SERVER / UPS ROOM: CO2 TYPE X 2 2. INDIVIDUAL DEPARTMENT OF THE PREMISES: CO2 TYPE X 1 3. STATIONARY ROOM: CO2 TYPE X 1 4. ELECTRIC ROOM / AC PLANT ROOM: CO2 TYPE X 2 5. DG SET/GENERATOR: 6KG ABC CAPACITY X 2	YES / NO
26	WHETHER SERVER ROOM HAVE DUAL AC UNITS WITH TIMER CIRCUIT DEVICE ON INDEPENDENT	YES / NO
27	1800	YES / NO
28	WHETHER PROPER INSULATION AT THE BATTERIES HAVE BEEN PROVIDED	YES / NO



Details of rectification required

HIGH RISK:
<u>Inorritori.</u>
MEDIUM RISK
LOW RISK
<u>LOW RISK</u>
N -
Approximate cost for carrying out rectification work. (Individual cost of items to

Indian Bank

be mentioned)	
SIGNATURE OF QUALIFIED ELECTRICIAN / AGENCY WITH ADDRESS	SIGNATURE OF BRANCH MANAGER
No.	SIGNATURE OF BRANCH WANAGER

इंडियन वैक ndian Bank

FOR PREMISES HAVING MULTIPLE FLOORS / OFFICES

1. Assessment of luminaries / light fittings

Type of luminaries / light fittings	No of luminaries / light	Lux level of luminaries / light fittings	ries / consump		Remarks (Condition of light fixtures acceptable or Not	Suggestions for improvement, if any
	fittings		Watt	Amp		

2. Floor wise assessment of Air conditioning system

 conditione	Line 1	load consumption	 Remarks (Condition of machine acceptable or Not	Suggestions on improvement, if any

3. Floor wise assessment of UPS

DVDDVDDVDV	No. of UPS	Capacity (KVA)	Vo of	P-F lta ea JP:	ge ich	P-N ead	Volt ch L	age IPS	P	has ırrer	e nts	To elect los consi	trical ad umpti	Earthing & its adequac	e earthing & its	Remarks (Conditio n of machine accepta	Suggestio s on improveme
K I B K I B K I B KW A			R	Υ	В	R	Υ	В	R	Υ	В	KW	Α				

4. Floor wise assessment of electric circuit

Sl.No	Heads	Result	(acceptable	Suggestions on improvement, if any
1	Presence of Main switch interlocking if two different supplies are coming to Distribution panel			
2	Availability of correct identification of circuit details and protective devices			
3	Presence of nonstandard (mixed) cable color warning notice at or near consumer unit / Distribution board			
4	Cables correctly supported throughout their run or not			
5	Condition of insulation of live parts			
6	Adequacy of wiring for current carrying capacity with regard to the type and nature of the installation			
7	Adequacy of protective devices, type and rated current for fault protection			
8	Presence and adequacy of circuit protective conductors			
9	Whether Low voltage cables segregated from Medium voltage cables			
10	Whether Cables separated / segregated from non-electrical services			



11	Whether proper terr	mination of cables at	
12	Connections soundly made and	Insulation of conductor visible outside enclosure	
	under no undue strain	Connections of live conductors adequately enclosed	
		Adequately connected at point of entry to enclosure (glands, bushes etc.,)	
		Condition of accessories including socket outlets, switches & joint boxes	
13		rvations, if any record the inspections applied Separately	

5. Floor wise assessment of electrical Panel room

Sl.No		Heads	Result	Remarks	Suggestions on
				acceptable or Not)	improvement, if any
1		switch interlocking if two			
		are coming to Distribution			
2	details and prote				
3		tandard (mixed) cable			
		tice at or near consumer			
4	unit / Distribution b				
	or not	supported throughout their run			
5	Condition of insula	ation of live parts			
6		g for current carrying			
	of the installation	ard to the type and nature			
7		ective devices, type and			
	rated current for fa				
8	Presence and ac	. ,			
9		age cables segregated from			
9	Medium voltage c				
10		separated / segregated from			
	non electrical ser				
11		ective earthing conductor			
12		ral earthing conductor			
13		ermination of cables			
- 44	at enclosures				
14	Connections	insulation of conductor			
	soundly made and under no	visible outside enclosure			
	undue strain	Connections of live			
	anddo strain	conductors adequately			
		enclosed			
		Adequately connected at			
		point of entry to enclosure			
		(glands, bushes etc.,)			
		Condition of			
1		accessories including			
/		socket outlets,			



15	Details switch	No of F	Panels	
	gear panels	Rating	of panels	
			rement of P-P & P-N e of Panels	
		11	rement of P-P & P-N t of Panels	
		Condit	ion of Panels	
		Any oth	ner observations	
16	Whether method		les laid inside the table	
17			Air conditioning load	
	Floor		Light & power load	
18	Whether electric	cal load l	palancing is	
19	Other special of results of particular separately		ons, if any record the ections applied	

6. Assessment of Transformer

No. of Tran formo	each	P-P Voltage of each Transfo rmers			P-N Voltage each Transfo rmers			S			electric al load		&its	ectiv e earth	loaded/u nder loaded and	st-ions on improv ement, if any
		R	Y	В	R	Y	В	R	Y	В	KW	A				

7. Assessment of Elevator

-	1 -		_	_	_		_		_				_							· -		
No			P-P			P-N		Pha			Tot	al	Para	meters	of the	motors	3	Neutra	Prote	Condi	Remark	Sugge
	of each	Vc	oltag	ge	Vo	ltag	ge i	Cur	ren	ts	elect	rical						Earthing	ctive	tion of	s (Conditi	stions
	elevator s										loa	d						& its	earth	insula	on of	on
											consu	ımpti	No	Comm	Volt	C	Conditi	adequac	ing &	tions	machin e	improv
	1. Rating										or	1	NO	Capa c-ity	-age	Curr	on of	l v	its		accepta	ement,
	2.make													(KW)	-agc	Citi	motors		adeq		ble or Not	if any
	3.type													(1271)			motors		uacy		1	
					_		_	L		_												
		R	Y	В	R	Y	В	R	Y	В	KW	Α										
-		_	-		-	-	_		-	_			_		-							
					Y I														11			



8. Assessment of Pump

N o of P u m p	Capacit y of. each pump 1. Rating 2.make 3.type	P-I Voi			P-i Vol	N tag		Ph Cu s		nt	Total electric load consul pt ion	cal	Para mote No	ca	Volt age	Curr ent	Condition of motors	Neutral Earthing & its adequa c y	eartii	ion of insulat	Rema r ks (Condi tion of machi ne accep t able or Not	on
		R	Υ	В	R	Υ	В	R	Υ	В	KW	Α										

9. Assessment of earthing system

Earthing Continuity Testing: This Test is conducted to find out any equipment that has not been earthed properly and in compliance with Indian Electricity Act 1956, IS-1200 part I and as per IS-3043 of 1966. It is to be checked with the help of Continuity Testing Meter and Earth Resistance Meter

Sl. No	Heads	Result	Remarks (acceptable or Not)	Suggestions with new technologically energy efficient, environment friendly, cost benefited air conditioning system
1	No of earth pit			-
2	Туре			
3	Earthing test report			
4	Continuity test report			
5	Condition of total earthing system for the building. (Give detail report)			
6	Neutral Earthing & its adequacy			
7	Protective Earthing & its			
8	Other special observations, if any record the results of particular inspections applied separately			

10. Assessment of lighting protection system

SI. No	Heads	Result	Remarks (acceptable or Not	Suggestions with new technologically energy efficient, environment friendly, cost benefited air conditioning system
1	Number of terminals			-
2	Number of down conductors			
3	Continuity of conductor			
4	Condition of the lightning conductor			
5	Joints condition			
6	Jesting point on down conductor			
7	Earth conductor condition			
8	Earth resistance			
9 -	Other special observations, if any record the results of			
तिहे	particular inspections applied separately			

11. Assessment of Diesel Generating Set:

No of	Capacity of	P-	Р		P-1	1		PI	has	se	Total	l	Neutral	Protectiv	Conditio	Whether	Remark	Sugges
Diesel	each Diesel	Vo	lta	ge	Vol	ta	ge	Cı	urre	ent	elect	trical	Earthin	е	n of	Diesel	S	ti ons
	Generator							s			load		g	earthing		Generator		on
ator	Set	Die	es e	əl	Die	Se	əl				cons	ump	& its	&	0	Set over	o n of	improve
Set	1. Rating	Ge	ene	era	Ge	ne	era				ti on		adequ	its	ns	loaded/un	machin	ment,
	2.make	t o	r S	et	tor	S	et						ac y	adequac		de r	е	if any
	3.type	R	Υ	В	R	Υ	В	R	Y	В	KW	Α						

SIGNATURE WITH SEAL

(CONSULTANT / CONTRACTOR)

(OFFICER OF BRANCH / OFFICE)

NAME OF THE ELECTRICAL ENGINEER / CONSULTANT / CONTRACTOR:

SUPERVIOR'S VALID LICENSE NO:

DATE: PLACE:

The particulars furnished in the application are true to the best of my/our knowledge & belief. I/we understand that if any of the particulars is found incorrect, even at a later stage, my/our contract will be cancelled.

SIGNATURE WITH SEAL

(CONSULTANT/CONTRACTOR)

DATE: PLACE:



FORMAT FOR ELETRICAL ENERGY AUDIT FOR BRANCHES

BRANCH CODE & NAME	
ADDRESS	
SANCTIONED LOAD	
CONNECTED LOAD	
MONTHLY ELECTRICITY BILL (APPX)	
TOTAL TONNAGE OF AIR CONDITIONER LOAD	
AREA OF THE BRANCH	

ELECTRICAL ENERGY AUDIT:

S.No.	DESCRIPTI	Wattage	Recommendatio
1.	Type of Electrical Fittings installed and its		
2.	No of Ceiling Fan installed and its power consumption.		
3.	No. of Wall Fan installed and its power consumption		
4.	No of Air-conditioners and its capacity and power consumption of		
5.	No of computer installed and its power consumption.		
6.	UPS installed and its capacity		
7.	Any other gadgets in stalled and its power consumption.		
8.	Verification of electricity Bill for last 12 months and observation if any		
9	Leakage if any in the wiring system		

The particulars furnished in the application are true to the best of my/our knowledge & belief. I O/we understand that if any of the particulars is found incorrect, even at a later stage, my/our contract will be cancelled.

SIGNATURE & SEAL OF AUDITOR

DATE:	
PLACE:	
Electrical Safety & Energy Audit	Page
Indian Cask	