Forms for Inspection Report / Self Certification under Regulation 30 / 43

FORM I

(Installations of voltage up to and including 250V)

Repor	rt No				
Date	of Inspe	ection by Electrica	l Inspector		
or sel	f-certifi	cation by supplier	/owner/Chartered H	Electrical Safety En	ngineer
Date	of Last	inspection or self	certification		
 V V 3. 4. A Lo 	oltage a (i) (ii) (iii) Type Name ddress of ocation	of the consumer or of the premises	or owner		
7. Pa	(i) (ii) (iii) State	Light Points Fan Points Plug Points type of wiring v	Number Number whether casing cap gh Rubber Sheathe	Connected oping, lead covere	Load in KW ———— ed of teak wood batten,
(b)	Other (i)	equipments (comp	plete details to be f		
Total	connect	ted load in KW _			
Maxi	mum cu	rrent demand in A	amps		
(on th	e basis	of total connected	load)		
(c) (i) (ii)		rators details i.e. N	Make, S. No, KVA	ating and Voltage:	:

General conditions of the installation:

Sl.	Regulation	Requirements	Report
No. 8.	Nos. Regulation- 12	 (i) Is/Are there any visible sign(s) of overloading in respect of any apparatus wiring? (ii) Condition of flexible cords, sockets, switches, plug-pins, cut-outs and lamp holders and such other fittings. (iii) General condition of wiring. (iv) Whether any unauthorised temporary installation exist? (v) State if sockets are controlled by individual switches. (vi) Whether separate boards / conduits have been provided for power supply and communication purpose? 	Yes/No Satisfactory/Not Satisfactory/Not Satisfactory/Not Satisfactory Yes/No Yes/No Yes/No
		(vii) Any other defect or condition which may be a source of danger. If yes give details.	Yes/No
9.	Regulation- 13	Give report on condition of service lines, cables, wires, apparatus and such other fittings placed by the supplier or owner of the premises. If not satisfactory give details.	Satisfactory/Not Satisfactory
10.	Regulation- 14	Whether suitable cut-outs / MCBs provided by the supplier at the consumer's premises are within enclosed fire proof / resistant receptacle?	Yes/No
11.	Regulation- 15	 (i) State if switches are provided on live conductors. (ii) State if indication of a permanent nature is provided as per Regulation so as to distinguish neutral conductor from the live conductor as per IS color code? (iii) Whether a direct line is provided on the neutral in the case of single phase double pole iron clad switches/Isolators/MCBs instead of fuse? 	Yes/No Yes/No Yes/No
12.	Regulation- 16	 (i) State if earthed terminal is provided by the supplier. (ii) Have three pin plugs been provided for plug points? (iii) General visible condition of the earthing arrangement. (iv) Whether Green wire is provided at switchboard for earthing? 	Yes/No Yes/No Satisfactory/Not Satisfactory Yes/No

13.	Regulation-	Are the live parts in accessible position?	Yes/No
14.	Regulation- 34	Leakage on premises: State insulation resistance between conductors and earth in Mega Ohms.	M Ohms
15.	Regulation- 35	 (i) State if linked switches of requisite capacity are provided near the point of commencement of supply. (ii) State if the wiring is divided in suitable number of circuits and each such circuit is protected by suitable cut-out / MCBs. a). No. of Power Circuits b). No. of Lighting Circuits (iii) State if supply to each motor or apparatus is controlled by suitable linked switch. 	Yes/No Yes/NoNosNos. Yes/No
16.	Regulation- 41	 (i) Have the frames of every generator, stationary motor and so far as practicable portable motor and the metallic parts (not intended as conductors) of all other apparatus used for regulating or controlling electricity been earthed by two separate and distinct connections with earth? (ii) Is the earth wire free from mechanical damage? (iii) In the case of conduit, or lead covered wiring, has the conduit or lead-cover been efficiently earthed? (iv) If the consumer has his own earthelectrode, state if it is properly executed and has been tested. If yes give value of earth resistance. 	Yes/No Yes/No Yes/No Yes/No Ohms.
17.	Overhead Lines	 (i) State if the consumer has any overhead lines. (ii) Does the overhead line near the premises of consumer meets the requirement of regulation 58, 60 and 61? If not, give details. (iii) Is guarding provided for overhead lines at road crossings? (iv) Any other remarks. 	Yes/No Yes/No Yes/No
18.	Regulation 42	Whether earth leakage protective device (ELCB/RCCB) of appropriate capacity as defined in Regulation have been provided in each circuit?	Yes/No

Date:	Signature of the Inspecting Officer
	Name
	Designation
	File No
(For Self Certification by Owner or	Supplier or Chartered Electrical Safety Engineer)
CI	ERTIFICATE
	on 43 of CEA (Measures relating to Safety & upply) Regulation,2010)
work has been carried out conforming to Supply) Regulation,2010 and relevant Sta	installation has been completed in all respects and the the CEA (Measures relating to Safety & Electricity and ards of IS/NEC/IEC. The site tests done are found operate the apparatus free from any danger.
(Signatura)	(Cignotiva)
(Signature)	(Signature)
Self certifying supplier or owner	Chartered Electrical Safety Engineer
Name	Name
	File No

* Not applicable to isolated wall tubes or to brackets, electroliers, switches, ceiling fans and such other fittings (other than portable hand lamps and transportable apparatus) unless provided with earth terminal.

To Chief Electrical Inspector / Electrical Inspector for

FORM II

(Installations of voltage level more than 250V up to and including 650V)

Report	No				
Date of	f Inspection by El	ectrical Inspe	ector		
or self-	-certification by su	applier/owner	Chartered E	lectrical Safety	Engineer
Date of	f Last inspection of	or self certific	eation		_
2. Vo (i) Vo	nsumer Nooltage and system olts me of the consum	of supply:(ii) No. of	Phases		
	dress of the consu				
5. Lo	cation of the prem	ises			
	rticulars of the ins	tallations			
(a)	Motors:	NT	IID		X7 1,
(;)	Make		H.P.	Amps.	Voltage
/ • • ·					
(b)	Other equipment	(complete de	etails to be fu	rnished):	
\	Total connected				
(c) (i)	Generators detail				ge:
(ii)					

General condition of the installation:

			1
Sl.	Regulation	Requirements	Report
No.	Nos.		
7.	Regulation-3	Is the register of designated persons properly	Yes/No
		made and kept up to date duly attested?	
8.	Regulation-	, , , , , , , , , , , , , , , , , , ,	Yes/No
	12	overloading in respect of any apparatus wiring?	
		(ii) Whether any unauthorised temporary	Yes/No
		installation exist?.	
		(iii) Are the electric supply lines and apparatus	Yes/No
		so installed, protected, worked and	
		maintained as to prevent danger?	
		(iv) Any other general remarks.	
9.	Regulation-	Give report on condition of service lines,	Satisfactory/Not
	13	cables, wires, apparatus and such other fittings	Satisfactory

		placed by the supplier or owner of the	
		premises. If not satisfactory give details.	
10.	Regulation-	Whether suitable cut-outs/MCBs provided by	Yes/No
	14	the supplier at the consumer's premises are	
1.1	D 1.1	within enclosed fire proof/resistant receptacle?	X7 /NT
11.	Regulation-	(i) Whether switches are provided on live	Yes/No
	15	conductors?.	/NI -
		(ii) Whether indication of a permanent nature	Yes/No
		is provided as per Regulation so as to distinguish neutral conductor from the live	
		conductor as per IS color code?	
		(iii) Whether a direct line is provided on the	Yes/No
		neutral in the case of single phase double	103/110
		pole iron clad switches/Isolators/MCBs	
		instead of fuse ?	
12.	Regulation-	(i) Whether earthed terminal is provided by	Yes/No
	16	the supplier?	
		(ii) General visible condition of the earthing	Satisfactory/Not
		arrangement.	Satisfactory
13.	Regulation-	(i) Are bare conductors in building	Yes/No
	17	inaccessible?	
		(ii) Whether readily accessible switches have	Yes/No
		been provided for rendering them dead?	
14.	Regulation-	Whether "Danger Notice" in Hindi and the	Yes/No
	18	local language of the district and of a design as	
		per relevant Indian Standard is affixed	
		permanently in conspicuous position?.	
15.	Regulation-	(i) Whether insulating floor or mats conforming	Yes/No
	19	to IS-15652:2006 have been provided?	
		(ii) Whether identification of panel has been	Yes/No
		provided on the front and the rear of the	
1.0	D 1.	panel?	X7 /NT
16.	Regulation-	Whether flexible cables used for portable or	Yes/No
	21	transportable equipment covered under the Regulation, are heavily insulated and	
		adequately protected from mechanical injury?.	
17.	Regulation-	State the condition of metallic coverings	Satisfactory/Not
1/.	22	provided for various conductors.	Satisfactory
18.	Regulation-	Whether the circuits or apparatus intended for	Yes/No
	24	operating at different voltage(s) are	
		distinguishable by means of indication(s) of	
		permanent nature?.	
19.	Regulation-	Whether all circuits and apparatus are so	Yes/No
	26	arranged that there is no danger of any part(s)	
		becoming accidentally charged to any voltage	
		beyond the limits of voltage for which it/they	
		is/are intended?	
	L		

20.	Regulation- 27	 (i) In the case of generating stations, whether fire-buckets filled with clean dry sand have been conspicuously marked and kept in convenient situations in addition to fire-extinguishers as per IS 3034 suitable for dealing with minor electric fires? (ii) Whether First Aid Boxes or cupboards conspicuously marked and properly equipped are provided and maintained?. (iii) Is adequate staff trained in First Aid Treatment and fire fighting? 	Yes/No
21.	Regulation- 28	 (i) Whether instructions in English or Hindi and the local language of the district and where Hindi is the local language, in English and Hindi, for the resuscitation of persons suffering from electric shock have been affixed in a "conspicuous place"? (ii) Are the designated persons able to apply instructions for resuscitation of persons suffering from electric shock? 	Yes/No Yes/No
22.	Regulation- 34	Leakage on premises: State insulation resistance between conductors and earth in Mega Ohms.	M Ohms
23.	Regulation- 35	 (i) Whether a suitable linked switch, or circuit breaker is placed near the point of commencement of supply so as to be readily accessible and capable of being easily operated to completely isolate the supply? (ii) Whether every distinct circuit is protected against excess electricity by means of a 	Yes/No Yes/No
		suitable circuit breaker or cut-out? (iii) Whether suitable linked switch or circuit breaker is provided near each motor or apparatus for controlling supply to the motor or apparatus?.	Yes/No
		(iv) Whether adequate precautions are taken to ensure that no live parts are so exposed as to cause danger?	Yes/No
24.	Regulation- 37	(i) Whether clear space of 100 cm is provided in front of the main switchboard?(ii) Whether the space behind the switchboard exceeds 75 cm in width or is less than 20	Yes/No Yes/No
		cm? (iii) In case the clear space behind the switchboard exceeds 75 cm. state whether a passage way from either end of the switchboard to a height of 1.80 metres is provided.	Yes/No

25.	Regulation-	(i) Has the neutral point at the transformer and	Yes/No
23.	41	generator been earthed by two separate and distinct connections with earth? (ii) Have the frame of every generator, stationary motor and so far as practicable portable motor and the metallic parts (not intended as conductors) of all transformers and any other apparatus used for regulating or controlling electricity and all apparatus consuming electricity at voltage exceeding 250V but not exceeding 650V been earthed by two separate and distinct connections with earth?	Yes/No
		(iii) Have the metal casings or metallic coverings containing or protecting any electric supply line or apparatus been properly earthed and so joined and connected across all junction boxes as to make good mechanical and electrical connection?	Yes/No
		(iv) Whether the consumer's earth-electrode is properly executed and has been tested. If yes, give value of earth resistance?	Yes/No
		(v) Is the earth wire free from any mechanical damage?	Yes/No
		(vi) Whether record of earth resistance value maintained?	Yes/No
26.	Regulation 42	Whether earth leakage protective device (ELCB/RCCB) of appropriate capacity as defined in Regulation have been provided in each circuit?	Yes/No
27.	Regulation- 45	Have the protections and interlocks for the generating units been provided. If not, give details?	Yes/No
	Overhead	(i) State if the consumer has any overhead	Yes/No
	Lines	lines. (ii) Does the overhead line near the premises of consumer meets the requirement of regulations 58, 60 and 61? If not, give details.	Yes/No
		(iii) Is guarding provided for overhead lines at road crossings?(iv) Any other remarks.	Yes/No
Date :	<u> </u>		the Inspecting Officer

Date:

Signature of the Inspecting Officer

Name	
Designation _	
File No	

(For Self Certification by Owner or Supplier or Chartered Electrical Safety Engineer)

CERTIFICATE

(Under Regulation 30 / Regulation 43 of CEA (Measures relating to Safety & Electricity Supply) Regulation,2010)

This is to certify that the electrical installation has been completed in all respects and the work has been carried out conforming to the CEA (Measures relating to Safety & Electricity Supply) Regulation,2010 and relevant Standards of IS/NEC/IEC. The site tests done are found to be in order and it is electrically safe to operate the apparatus free from any danger.

Encl: Test reports	
(Signature)	(Signature)
Self certifying supplier or owner	Chartered Electrical Safety Engineer
Name	Name
	File No.

FORM III

(Installations of voltage exceeding 650V)

Report No
Date of Inspection by Electrical Inspector
or self-certification by supplier/owner/Chartered Electrical Safety Engineer
Date of Last inspection or self certification
1. Consumer No 2. Voltage and system of supply: (ii) Volts(ii) No. of Phases(iii) AC/DC
3. Name of the consumer or owner4. Address of the consumer or owner
5. Location of the premises
(i)
(ii)
(b) Generators details i.e. Make, S. No, KVA rating and Voltage: (i)
 (ii)
(c) Total connected load KVA

Sl.	Regulation	Requirements	Report
No.	Nos		
1.	Regulation-3	(i) Is the register of the designated persons properly made and kept up to date duly attested?(ii) Whether Electrical Safety Officer as required under the Regulation is designated?	
2.	Regulation- 12	 (i) Is/Are there any visible sign(s) of overloading in respect of any apparatus? (ii) Whether any unauthorised temporary installation exist? (iii) Whether the motors and controlling equipment are being over hauled 	Yes/No Yes/No Yes/No

		1 11 11 1 11 0 1	1
		periodically and record kept of the same in	
		a register?	X7 /37
		(iv) Whether the transformer oil samples are	Yes/No
		being tested periodically and results	137/
		recorded in a register? State value of	kV/mm
		dielectric strength of oil.	
		(v) Whether suitable lightning arrestors have	Yes/No
		been provided near the transformers for	
		protection against lightning?	
		(vi) Whether earth resistance is being	Yes/No
		measured periodically in dry and wet	
		season and results recorded in a register?	
		Copy of record to be enclosed.	
		(vii) Any other defect or condition which may	Yes/No
		be a source of danger. If Yes please	
		explain?	
		(viii) Whether operation and maintenance	Yes/No
		data has been clarified, categorized and	
		computerized for prompt and easy	
		retrieval?	
		(ix) Whether predictive maintenance is being	Yes/No
		performed for installation of voltage	
		exceeding 650V?	
		(x) Whether residual life assessment and life	Yes/No
		extension programmes are being	
		undertaken for installations or equipment	
		of voltage exceeding 650V (applicable for	
		installations or equipment more than 15	
		years old)?	
		(xi) Whether all required type and routine tests at	Yes/No
		factory done for equipments. Deficiencies and	103/110
		Discrepancies in above test report and results,	
		if any, shall be reported?	
		(xii) Are there deficiencies in construction with	Yes/No
		reference to Indian Standard requirements.	105/110
		Please specify.	
3.	Regulation-	Give report on condition of service lines,	Satisfactory/Not
	13	cables, wires, apparatus and such other fittings	Satisfactory
		placed by the supplier or owner of the	
		premises. If not satisfactory give details.	
4.	Regulation-	Whether suitable cut-outs/MCBs provided by	Yes/No
	14	the supplier at the consumer's premises are	
		within enclosed fire proof/resistant receptacle?	
5.	Regulation-	(i) Whether switches are provided on live	Yes/No
	15	conductors?.	
		(ii) Whether indication of a permanent nature	Yes/No
		is provided as per Regulation so as to	1 22, 2 , 3
		distinguish neutral conductor from the live	
		conductor as per IS color code?	
Ь	1	tolladotol do pol lo colol code.	<u> </u>

		(iii) Whether a direct line is provided on the neutral in the case of single phase double pole iron clad switches/Isolators/MCBs instead of fuse?	Yes/No
6.	Regulation- 16	(i) Whether earthed terminal is provided by the supplier?(ii) General visible condition of the earthing arrangement.	Yes/No Satisfactory/Not Satisfactory
7.	Regulation- 17	(i) Are bare conductors in building inaccessible?(ii) Whether readily accessible switches have been provided for rendering them dead?	Yes/No Yes/No
8.	Regulation- 18	Whether "Danger Notice" in Hindi and the local language of the district and of a design as per relevant Indian Standard is affixed permanently in conspicuous position?.	Yes/No
9.	Regulation- 19	(i) Whether the practice of working on live lines and apparatus is adopted? If so, have the safety measure been adopted as per Schedule-III?(ii) Whether insulating floor or mats	Yes/No Yes/No
		conforming to IS-15652:2006 have been provided? 14. (iii) Whether identification of panel has been provided on the front and the rear of the panel?	Yes/No
10.	Regulation- 21	Whether flexible cables used for portable or transportable equipment covered under the Regulation, are heavily insulated and adequately protected from mechanical injury?.	Yes/No
11.	Regulation- 22	State the condition of metallic coverings provided for various conductors.	Satisfactory/Not Satisfactory
12.	Regulation- 24	Whether the circuits or apparatus intended for operating at different voltage(s) are distinguishable by means of indication(s) of permanent nature?.	Yes/No
13.	Regulation- 26	Whether all circuits and apparatus are so arranged that there is no danger of any part(s) becoming accidentally charged to any voltage beyond the limits of voltage for which it/they is/are intended?	Yes/No
14.	Regulation- 27	(i) In the case of generating stations and enclosed sub stations, whether fire-buckets filled with clean dry sand have been conspicuously marked and kept in convenient situations in addition to fire-extinguishers as per IS 3034 suitable for	Yes/No

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		dealing with minor electric fires? (ii) Whether First Aid Boxes or cupboards conspicuously marked and properly	Yes/No
		equipped are provided and maintained?. (iii) Is adequate staff trained in First Aid Treatment and fire fighting?	Yes/No
15.	Regulation-	(i) Whether instructions in English or Hindi	Yes/No
	28	and the local language of the district and	
		where Hindi is the local language, in	
		English and Hindi, for the resuscitation of	
		persons suffering from electric shock have	
		been affixed in a "conspicuous place"?.	
		(ii) Are the designated persons able to apply	Yes/No
		instructions for resuscitation of persons	
		suffering from electric shock?	
16.	Regulation-	Leakage on premises:	
	34	State insulation resistance between conductors	M Ohms
		and earth in Mega Ohms.	
17.	Regulation-	(i) Whether a suitable linked switch, or circuit	Yes/No
	35	breaker, or emergency tripping device is	
		placed near the point of commencement of	
		supply so as to be readily accessible and	
		capable of being easily operated to	
		completely isolate the supply?	
		(ii) Whether suitable linked switch or a circuit	Yes/No
		breaker to carry and break the full load	
		current on the secondary side of a	
		transformer?	
		(iii) Whether every distinct circuit is protected	Yes/No
		against excess electricity by means of a	
		suitable circuit breaker or cut-out?	
		(iv) Whether linked switch or circuit breaker or	Yes/No
		emergency tripping device is provided	
		near the motor or other apparatus at	
		voltage exceeding 650V but not exceeding	Yes/No
		33kV for controlling supply to the motor	
		or apparatus?	X/ /N -
		(v) Whether adequate precautions are taken to	Yes/No
		ensure that no live parts are so exposed as	
10	Dogulation	to cause danger?	Yes/No
18.	Regulation-	(i) Whether clear space of 100 cm is provided in front of the main switchboard?	1 es/No
	37		Yes/No
		(ii) Whether the space behind the switchboard exceeds 75 cm in width or is less than 20	1 CS/INO
		cm?	
		(iii) In case the clear space behind the	Yes/No
		switchboard exceeds 75 cm. State whether	105/110
		a passage way from either end of the	
		switchboard to a height of 1.80 meters is	
		Switchoodid to a neight of 1.00 meters is	

		provided.	
19.	Regulation- 44	(i) Whether all conductors and apparatus including live parts thereof are inaccessible?	Yes/No
		(ii) Whether all windings of motors or other apparatus are suitably protected?	Yes/No
		(iii) State in case of transformers or reactors or switches or static condensers involving the use of more than 2,000 litres of oil in one chamber, if suitable oil soak pits are provided?	Yes/No
		(iv) Where 9,000 litres or more of oil is used in any one oil tank, has provision, been made for draining away or removal of oil which may leak or escape from such tank(s)?	Yes/No
		(v) Whether trenches inside sub-station containing cables are filled with non-inflammable material or completely covered with non- inflammable slabs?	Yes/No
		(vi) Are conductors and apparatus so arranged that they may be made dead in sections for carrying out work thereon?	Yes/No
		(vii) Whether separate cable trays are provided for control/Power/AC/DC cables?	Yes/No
		(viii) Whether suitable fire fighting system as per the Regulation has been provided?	Yes/No
		(ix) Whether the baffle walls of four hours fire rating between apparatus or consumer premises, in a substation or a switching station with apparatus having more than 2000 litres of oil are installed, has been provided as required under the Regulation?	Yes/No
20.	Regulation- 45	Whether protections and interlocks have been provided? If not, give details.	Yes/No
21.	Regulation- 48	(i) Have the frames of every generator, stationary motor, and so far as practicable portable motor and metallic parts not intended as conductors of all transformers and any other apparatus used for regulating or controlling electricity and all electricity consuming apparatus at voltage exceeding 650V but not exceeding 33kV been earthed by two separate and distinct connections with earth?	Yes/No
		(ii) Is the earth wire free from any mechanical damage?(iii) Has the neutral point at the transformer and generator, been partled by two congretors.	Yes/No Yes/No
		generator been earthed by two separate and distinct connections with earth?	

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		 (iv) Have the metal casings or metallic coverings containing or protecting any electric supply line or apparatus been properly earthed and so joined and connected across all junction boxes as to make good mechanical and electrical connections throughout their whole length? (v) Whether earthing has been properly 	
		executed and has been tested. If yes, give value of earth resistance.	
22.	Regulation-	Is the outdoor (except pole type) sub-station	Yes/No
22.	49	efficiently protected by fencing not less than 1.8 metres in height?	103/140
23	Regulation- 50	(i) Where platform type construction is used for pole type sub-station, has sufficient space for a man to stand on the platform been provided?	
		(ii) Has hand-rail been provided and connected with earth (if metallic and if sub-station has not been erected on wooden supports and wooden plateform)?	
24.	Regulation- 51	Has suitable provision been made for immediate and automatic or manual discharge of every static condenser on disconnection of supply?	Yes/No
25	Overhead		
	Lines	(i) What is the minimum size of the conductors of overhead lines used? State the type of conductors.(ii) Whether clearances above ground of the lowest conductor of overhead lines are as	
		per regulation 58? State clearance. (iii) On the basis of maximum sag, Whether vertical clearances where the line of voltage exceeding 650V passes above or adjacent to any building or part of a building are as per regulation 61? State	metres Yes/No metres
		clearance. (iv) On the basis of maximum deflection due to wind pressure, whether horizontal clearances between the nearest conductor and any part of such building are as per	Yes/No
		regulation 61? State clearance. (v) Where conductors forming parts of system at different voltages are erected on the same supports, whether adequate provision has been made as per regulation 62 to guard against danger to linemen and others	metres Yes/No

from the lower voltage system being charged above its normal working voltage by leakage from or contact with the higher voltage system? (vi) Where overhead lines cross or are in proximity to each other whether they have been suitably protected to guard against possibility of their coming in contact with each other as per regulation 69? (vii) Has every guard wire been properly earthed as per regulation 70 at each point at which its electrical continuity is broken? (viii)(a) Whether metal supports of overhead lines and metallic fittings attached thereto are permanently earthed as per regulation 72? (b) Has each stay-wire (except in case where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation 72? (ix)(a) Whether overhead line is suitably protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73? (b) Whether anti-climbing devices have been provided at each support as per regulation 73? (c) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same. (xii) Any other remarks.		
(vi) Where overhead lines cross or are in proximity to each other whether they have been suitably protected to guard against possibility of their coming in contact with each other as per regulation 69? (vii) Has every guard wire been properly earthed as per regulation 70 at each point at which its electrical continuity is broken? (viii)(a) Whether metal supports of overhead lines and metallic fittings attached thereto are permanently earthed as per regulation 72? (b) Has each stay-wire (except in case where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation 72? (ix)(a) Whether overhead line is suitably protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73? (b) Whether anti-climbing devices have been provided at each support as per regulation 73? (x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	charged above its normal working voltage by leakage from or contact with the higher	
(vii) Has every guard wire been properly earthed as per regulation 70 at each point at which its electrical continuity is broken? (viii)(a) Whether metal supports of overhead lines and metallic fittings attached thereto are permanently earthed as per regulation 72? (b) Has each stay-wire (except in case where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation 72? (ix)(a) Whether overhead line is suitably protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73? (b) Whether anti-climbing devices have been provided at each support as per regulation 73? (x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 75? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	(vi) Where overhead lines cross or are in proximity to each other whether they have been suitably protected to guard against possibility of their coming in contact with	Yes/No
(viii)(a) Whether metal supports of overhead lines and metallic fittings attached thereto are permanently earthed as per regulation 72? (b) Has each stay-wire (except in case where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation 72? (ix)(a) Whether overhead line is suitably protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73? (b) Whether anti-climbing devices have been provided at each support as per regulation 73? (x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	(vii) Has every guard wire been properly earthed as per regulation 70 at each point at which its electrical continuity is	Yes/No
where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation 72? (ix)(a) Whether overhead line is suitably protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73? (b) Whether anti-climbing devices have been provided at each support as per regulation 73? (x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	(viii)(a) Whether metal supports of overhead lines and metallic fittings attached thereto are permanently earthed as per regulation	Yes/No
protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73? (b) Whether anti-climbing devices have been provided at each support as per regulation 73? (x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation	Yes/No
been provided at each support as per regulation 73? (x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	protected with a device for rendering the line electrically harmless in case it breaks	Yes/No
(x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74? (b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	been provided at each support as per	Yes/No
arrestors is connected to a separate earth electrode as per regulation 74? (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	(x) (a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per	Yes/No
 (xi) Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75? (xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same. 	(b) Whether earth lead from the lightning arrestors is connected to a separate earth	Yes/No
(xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	(xi) Whether unused overhead lines are maintained in a safe mechanical condition	Yes/No
	(xii) Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	Yes/No

In addition to above, following electrical equipment wise test details to be given:

S.No.	Equipment	Test Conducted	Test Results	Remarks
1.	Linked Switch with fuses (s)	i)Mechanical operation ii)Rating of Fuse iii) Contact of blades	Smooth/Trouble someAmps Full/Partial	
2.	Isolator (Sl. No Make: Capacity:-	i) Mechanical operation ii) Remote Operation iii) Local Operation iv)Measurement of contact resistance v) Interlocking with earth switch vi)Interlocking with Circuit Breaker vii) IR Values Open condition Closed condition	Ok/Not ok Ok/Not OK Ok/Not OK micro Ohms OK/Not OK Ok/Not OK Phase to Phase and Phase-Earth	
3.	Circuit Breaker (Circuit breaker location and no.)	1.Rating of Circuit Breaker a. Type b. Voltage c. Normal Current d. Rupturing Current 2. IR Values Open condition Closed Condition 3.Contact Resistance 4. Mechanical Operation 5. Remote operation 6. Local Operation 7. Interlocking with Isolator 8. Interlocking with earth switch Circuit breaker control circuits 9. Alarm and Trip for OTI/WTI/Buchholz/PRV/etc., 10. Earth Fault Relay 11.Over Current Relay 12. Under Voltage Relay 13. other safety Alarms 14. Whether all the provisions of Regulation 35 are satisfactory?		
4.	Transformer Tranformer No., Location, (Transformer Sl. No. Make, Capacity, Voltage	 Insulation Resistance Values HT to LT HT to Earth L T to Earth Break down Voltage test I (Top) 		

	Ratio,)	Oil Sample II (Bottom) 3. Vector Group Test 4. Polarity Tests 5. Magnetising Balance 6. Tan Delta Test 7. Oil level in conservator tank 8. Oil level in breather cup 9. OTI/WTI settings 10. OTI/WTI alarm and trip operation 11. Operation of Buchholz relay 12. Operation of PRV 13. Oil leakage 14. Interlock of door switch of dry transformer 15. Clearances i) Side Clearance: ii) Between two Transformers 16. Body Earth Resistance 17. Neutral Earth Resistance 18. Earth Flat size Material used i)Body: ii)Neutral:		
5	Generators: Generator No., Location, (Alternator and Engine Sl. No. Make, Capacity,)	 Type of Generator Interlocking with other supply sources Body earth resistance Neutral earth resistance Earth Flat size Material used i)Body: ii)Neutral: Generator Protection details 		
6.	Cables	 Cable schedule showing the source, destination, size, length, type of cable, cable identification no., route, with IR values of phase to phase and phase to earth shall be enclosed. Cable trays Cable tray earthing Cables bending radius 		
7.	LT Panels	 No. of panels Location of panel 	Top Entry/Bottom Entry	

	T		 1
		3. Rating of the panel	
		4. Size of the main Bus bars and	
		the distribution Bus bars of the	
		panel	
		5. Whether the Bus bar size of the	
		panel suitable to rating of the	
		panel	
		6. IP Protection of panel	
		7. Type of cable entry	
		8. No. of Incomers and Bus	
		couplers in a Panel	
		9. Ratings of the Circuit Breakers	
		10. No. of MCCBs of each rating	
		in the panel	
		11. No. of spare MCCBs of each	
		rating	
		12. Panel Clearance from the wall	
		13. Clearance between two panels	
		i.e. adjacent panels	
		14. Whether all the provisions of	
		Regulation 37 followed	
		15. Size of the Earth strip used for	
		earthing of the panel	
		turing or any particular	
8.	Motors	1. List of Motors with their	
		rating, protection, overload	
		setting, size of earth	
		conductor used.	
8.	Earthing	1. Metal and Size of Earth Strips	
		2. Type of earthings	
		3. Location and No. of earth	
		electrode	
		4. Values of Earth resistance of	
		each earth electrode	
		5. Earth mat resistance	
9.	Over Head lines	1. Size of the Poles of DP	
	and DP structure	structure	
		2. Clearance between the phases	
		–phase and phase to earth.	
		3. Ground clearance of the bare	
		conductors	
		4. Check of electrical clearance	
		along the route of over head	
		line,	
		5. Check of guarding and	
		clearance at road crossings	
		6. Check the footings of the poles	
		7. Earthing arrangements	
•	1	,. Darding artangements	

		8. What is the minimum size of the conductors of over head lines used? State the type of conductors.9. Whether all the provisions of regulation 58, 61, 62,69,70 and 72 are satisfied.	
Genera	al Observations :		
1.	Sectional clearan		
2.		acture test reports of individual ies to be enclosed)	
3.	General observat	ion and views (Specific deviation ments of the Regulations shall be	
	Date :		Signature of the Inspecting Officer Name Designation File No
	(For Self Certi	ification by Owner or Supplier or Cha	rtered Electrical Safety Engineer)
	(Under Reg	ulation 30 / Regulation 43 of CEA (Electricity Supply) Regulat	•
	work has been carried Supply) Regulation,20	ed out conforming to the CEA (Mo	s been completed in all respects and the easures relating to Safety & Electricity NEC/IEC. The site tests done are found earatus free from any danger.
	Encl: Test reports		
	(Signature)	(Si	gnature)
	Self certifying supplier		artered Electrical Safety Engineer
	Name	Na	me
		File	e No