

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (15th)

Factory Name	Impress-Newtex Composite Textiles Limited					Note:
Address	Gorai, Mirzapur, Tangail					
FACTORY ID	9514	ELECTRICAL SAFETY INSPECTION DATES				Other Factory: ----- ----- ----- ----- ----- ----- ----- -----
Initial Inspection Date	24-Jun-2014	Date of 5 th Follow Up	15-Nov-2016	Date of 11 th Follow Up	13-Dec-2018	
Report Received Date	24-Jul-2014	Date of 6 th Follow Up	24-Jan-2017	Date of 12 th Follow Up	18-Jul-2019	
Date of 1 st Follow Up	29-Jul-2015	Date of 7 th Follow Up	19-Apr-2017	Date of 13 th Follow Up	07-Nov-2019	
Date of 2 nd Follow Up	18-Feb-2016	Date of 8 th Follow Up	06-Aug-2017	Date of 14 th Follow Up	13-Feb-2022	
Date of 3 rd Follow Up	26-May-2016	Date of 9 th Follow Up	15-Nov-2017	Date of 15 th Follow Up	05-Jul-2022	
Date of 4 th Follow Up	21-Aug-2016	Date of 10 th Follow Up	08-Jul-2018			
Inspected by		Shafi Md. Imran				

Item No	Inspection Observation	Inspection Action Plan (Recommendation)	Inspection Time line (given in report)	Inspection Comments (After Physical Inspection)	Factory Timeline (Approved timeline)	Final Action Plan (Factory)	Progress Status (On the date of inspection)	Pictorial Evidence
1	Multiple cables connected to single terminal at the changeover switch.	Multiple cable termination should be removed from changeover switch terminal.	Within 1 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	
2	Cables laid on floor behind panel not protected.	Provide a metallic (steel) cable tray or duct with protective cover to route the cables as well as protect the cables from physical damage due to falling objects and stepping of maintenance personnel and avoiding electric shock.	Within 3 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	

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3	Cables passing through wall and supported on cable ladder not protected and remaining gaps after passage of cables through wall not sealed.	Cables passing through permanent walls must be protected in covered cable tray/ steel pipe /PVC pipes and the remaining gaps after the passage of conduits must be sealed with fire resistance materials.	Within 3 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	
4	Cables entering/leaving LT Panel are not firmly supported with cable glands, and panel base plates removed to allow cable entry.	Cables entering to panel must be firmly fixed with cable gland to minimize stress at terminals. Panel base plates must be installed, at all time, and cables entering panel must be firmly fixed with cable gland.	Within 1 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	
5	Inadequate working space around panels.	Every item of installation should be arranged so as to facilitate its operation, inspection, maintenance & access. Access of the DB must be kept obstacle free for easy operation & maintenance.	Within 3 month	On 26/05/2016: Panel has been removed. Corrected at 2nd follow up inspection.	24-Aug-2014	Corrected	Corrected	

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6	Barrier/separators between different phases are not installed.	Phase barriers made of non-combustible insulating material preferably rubber between different phases (above 230V) must be installed to prevent lash over.	Within 1 month	Provide phase separator in the remaining gaps. New timeline to resolve this issue is 31st march, 2016. On 26-05-2016: Corrected.	31-Mar-2016	Corrected	Corrected	
7	Cables/wires passing through wall not protected and remaining gaps around the cable/wiring not sealed.	Cables/wirings passing through permanent wall must be protected and remaining gaps must be sealed with fire resistant materials.	Within 3 month	Provide phase separator in the remaining gaps. New timeline to resolve this issue is 31st march, 2016. On 26-05-2016: Corrected.	31-Mar-2016	Corrected	Corrected	
8	Hot spot (nuts and Bolts) visible inside of panel.	Periodic inspection is needed to identify all the loose connection and tighten up all the connections. Use single (individual) cables from the bus bar to MCB input or use plug-in bus bar for MCB input to avoid loose connection.	Immediate	Provide phase separator in the remaining gaps. New timeline to resolve this issue is 31st march, 2016. On 26-05-2016: Corrected.	31-Mar-2016	Corrected	Corrected	

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9	Alignment of bus-bar connection is not proper.	All the electrical bus bar connection should be properly aligned to have full surface contact to increase current carrying capacity.	Within 1 month	Corrected at the 1st Follow-up inspection.	24-Aug-2014	Corrected	Corrected	
10	Cable trench is not protected.	Provide covers on the trench made of non-combustible material preferably concrete slab to protect the cables' insulation from physical damage as well as prevent entering debris, dust and lint.	Within 1 month	On 26/05/2016: Corrected at the 2nd Follow-up inspection.	24-Aug-2014	Corrected	Corrected	
11	Large exhaust fans (1.5KW) in production floors and compressor room are directly controlled by the MCB.	Large exhaust fans must be connected through control device such that it will not restart automatically when power is restored. (DOL starter)	Within 1 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	

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12	Motor in the boiler room, not firmly fixed on the foundation / frame.	Motor in boiler must be fixed firmly on the concrete floor (base slab should be built).	Within 3 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	
13	Burnt sign visible at MCCB terminal inside panel.	Arrange periodic inspection & thermal scan to identify the overloading, loose connection, unbalanced load which may cause the excessive heat-rise and take action accordingly.	Immediate	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	
14	PVC flexible conduit inside production floor.	The BBT should not be used for supporting other service cables. BBT itself is supported along the rods fixed to the ceiling.	Within 3 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	

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15	BBT passing through floor not protected and remaining gaps around the BBT not sealed.	BBT passing through permanent floor/wall must be protected in steel/PVC pipes and remaining holes around the BBT must be sealed by fire rated materials.	Within 3 month	Corrected at the 1st follow-up inspection.	24-Aug-2014	Corrected	Corrected	
16	Lightning arrestor is not installed.	Lightning arrestor must be installed (according to NFPA 780) with proper size air termination network, down conductors and earth termination.	Within 1 month	On 18/02/2016: This issue is not corrected. New timeline to resolve this issue is 14th April, 2016. On 26/05/2016: LPS drawing seems fine, installation is going on. On 21/08/2016: Corrected.	14-Apr-2016	Corrected	Corrected	
17	New Finding: Generator output cables (laid on floor) are not protected and supported.	Ensure adequate protection for power cables by arranging cable trench with checkered plate. Do not make any arrangement that obstacle personnel's movement within working clearance.	Within 2 Months	On 26/05/2016: Corrected at the 2nd follow-up inspection.	29-Aug-2015	Corrected	Corrected	

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18	New Finding: Inadequate sized earth cable connected to generator frame.	Two separate and distinct earth connection must be provided over generator. Generator body must have earth connection with half of phase conductor. Or follow manufacturer / suppliers recommendation.	Within 2 Months	On 26/05/2016: Corrected at the 2nd follow-up inspection.	29-Aug-2015	Corrected	Corrected	
19	New Finding: Battery terminals are not covered.	Use insulated rubber cap to cover all the battery terminals.	Within 1 Months	On 26/05/2016: Corrected at the 2nd follow-up inspection.	29-Aug-2015	Corrected	Corrected	
20	New Finding: Electrical Single Line Diagram (SLD) is not amended properly.	Amend Electrical SLD properly. Mention all the modification there as present in the factory.	Within 2 Months	This issue is not corrected. New timeline to resolve this issue is 14th April, 2016. On 26-05-2016: SLD is available but need modification. Factory is behind the schedule. On 21/08/2016: Not Corrected. SLD is not as built and also need some amendments. On 15/11/2016: Not Corrected. Some mismatch found between panel and SLD. On 24/01/2017: Corrected	14-Apr-2016	Corrected	Corrected	

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21	New Finding: Thermography scanning report is unavailable	Keep a thermography scanning record of your electrical system at least twice a year	Within 2 Months	On 26/05/2016: Corrected at the 2nd follow-up inspection.	29-Aug-2015	Corrected	Corrected	
22	New Finding: No separation between LT panels and Transformer	Make a brick built separation between LT Unit and Transformer; ensure that after making separator you have adequate ventilation (cross ventilation) and working clearance around each electrical equipment	Within 2 Months	On 26-05-2016: Corrected.	14-Apr-2016	Corrected	Corrected	
23	New Finding: Earth pits are not identifiable & earth resistance record is unavailable.	Identify each earth pit and mark it for periodic maintenance purpose. All earthing systems shall be tested for resistance on any dry day not less than once in every two years.	Within 2 Months	On 26-05-2016: Corrected.	14-Apr-2016	Corrected	Corrected	

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24	New Finding : Excess cable laid randomly without protection.	Rearrange the haphazard cables behind panels for easy access for maintenance. Cable tray with cover may be redesigned to protect the cables from physical damaging and easy cable entry to panel.	Within 2 Months	On 26-05-2016: Corrected.	14-Apr-2016	Corrected	Corrected	
25	New Finding: Insulation resistance test of electrical cables is not performed	Insulation resistant test of all the cables must be performed once every 2 year cycle and recorded (this must require a complete power shut off)	Within 2 Months	On 26-05-2016: Corrected.	14-Apr-2016	Corrected	Corrected	
26	New Finding : Excess HT cable length not supported	Excess length of existing HT cables coiled near panel must be protected and laid safely.	Within 2 Months	On 26-05-2016: Corrected.	14-Apr-2016	Corrected	Corrected	

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27	New Finding: Multiple cables connected in the bus bar through single lugs.	Each cable must be connected in the bus bar through single lugs.	Within 1 Month	On 26-05-2016: Corrected.	15-Mar-2016	Corrected	Corrected	
28	New Finding : Generator Panel base plate removed to allow cable entry	Panel base plate must be installed and cable(s) entering panel must be firmly fixed with cable gland.	Within 1 Month	On 26-05-2016: Corrected.	15-Mar-2016	Corrected	Corrected	
29	New Finding: (1)Earth connections are not segregated. Transformer/Generator neutral and system earthing are connected in same bus. (2)Transformer Body earthing cable is inadequate	(1)Ensure separate earthing connection for all neutrals, Generator body, transformer body, Electrical system and Lightning Protection System. Mark them all. (2)Use 10-12 mm dia bare copper conductor for reliability; or the earth cable size must not be less than half of the phase cable (LT cables).	1 Month	On 15/11/2016: Corrected.	30-Sep-2016	Corrected	Corrected	

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30	New Finding: Transformer Oil Test report is unavailable.	Check the transformer oil condition by performing oil test. Do it once in a year and keep the record.	1 Month	On 15/11/2016: Corrected.	30-Sep-2016	Corrected	Corrected	
31	New Finding: Light in store room / storage areas is uncovered.	Lights in store room / storage areas shall be covered	1 Month	On 15/11/2016: Corrected.	30-Sep-2016	Corrected	Corrected	
32	New Finding: Multiple cables connected/ terminated at the bus bar using single cable lug.	Each power cable must be terminated at any point using single cable lug.	1 Month	On 24/01/2017: Corrected	20-Dec-2016	Corrected	Corrected	

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33	New Finding: Heat source (or exposed steam line) is adjacent to electrical installations (cable channel/ duct)	Heat source (or steam line) must be kept at least 0.9 meter apart from any electrical installation. In unavoidable case, heat source shall be covered by proper and adequate insulator.	1 Month	On 19/04/2017: Not corrected. On 06/08/2017: Not Corrected. On 15/11/2017: Not corrected. Steam line is attached to cable channel. On 08/07/2018: Not Corrected. On 13/12/2018: Corrected.	28-Feb-2017	Corrected	Corrected	
34	New Finding: No/Inadequate rubber (insulation) mat at the working area of distribution board/panel. Panel/distribution board is not firmly fixed with the foundation. Inadequate working space around panels and access to the panel is inconvenient. Instruction for CPR (Cardiopulmonary Resuscitation)/Electrical shock restoration is not present	Electrical insulation (not less than 3 mm thick in case of rubber mat) at the working area of each electrical installation (Transformer/LT panel/MDB/DB/SDB/ other manual operated machineries) must be ensured. panel base must be securely fixed to the foundation. With appropriate fastening devices. Ensure at least 1 meter (or equal to the width of board, whichever is higher) working clearance in front of each panel. To do so ensure uniform floor height around panel. CPR instruction shall be hanged near all electrical installations (LT panel, MDB, FDB, DB, SDB) at visible location	1 Month	On 06/08/2017: Not Corrected. Rubber mat and space around panels are not adequate. On 15/11/2017: Corrected.	30-May-2017	Corrected	Corrected	
35	New Finding: Phase barrier/separators are missing in MCCBs Power bus bars are installed congested; and power cables touch other phase bus bar/s	Phases must be separated by insulator (a rubber type no-flammable materials shall be used for it) Power bus bar must be installed with adequate clearance (not less than 2.5 inch for L.V) between two bars. Cables must not touch opposite bus bars in any case.	1 Month	On 06/08/2017: Corrected.	30-May-2017	Corrected	Corrected	

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36	New Finding: MCCBs are not adjusted per load demand. HT Cable dropping from 11kV OH line wire is used instead of Drop out fuse.	All the MCCBs must be adjusted per cable current ampacity/load current; if adjustment is not possible, replacement will be the only way. Replace the wire with standard Drop out fuse.	1 Month	On 06/08/2017: Not Corrected. Drop out fuse installed but MCCBs are not adjusted. On 15/11/2017: Corrected.	30-May-2017	Corrected	Corrected	
37	New Finding: HT Cables & LT cables are not separated Cable duct/channels are filled with fluffs (Lint/dust). BBT & Cable duct/channel end cover is missing	HT Cables & LT cables must be separated. Use separate cable trays having adequate distance between them. Cable channels/ducts must be kept neat and clean; these must be sealed properly thus no scope of ingress of fluffs. BBT & Cable duct/channel end cover shall be installed	1 Month	On 06/08/2017: Not Corrected. Fluffs found inside cable trench. On 15/11/2017: Corrected.	30-May-2017	Corrected	Corrected	
38	New Finding: Generator wheel is not fixed Transformer room is not readily accessible Transformer metal fencing has no ECC connection	Generator wheel shall be fixed with foundation Transformer room shall be readily accessible Transformer metal fencing shall be connected to earth	1 Month	On 06/08/2017: Corrected.	30-May-2017	Corrected	Corrected	

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39	New Finding: Power Cables are hanging without proper support. Generator output cables (laid on floor) are not protected and supported	Power cables must be supported by cable tray (ladder- where needed). Outdoor arrangement must be covered. Service cables from generator must be supported at its own breaker's terminal and with cable tray.	1 Month	On 06/08/2017: Not Corrected. On 15/11/2017: Corrected.	30-May-2017	Corrected	Corrected	
40	New Finding: LPS not maintained regularly. Connectors are rusted. Air terminals are missing at several points of Lightning Protection System. Bonding are not done as per standard	Rusted/damaged joints, air terminals, conductor shall be cleaned/replaced. LPS shall be maintained regularly for loosened joints, damaged/broken air terminals & bonding. Missing Air Terminals shall be reinstalled. bonding shall be done as per standard	1 Month	On 06/08/2017: Corrected.	30-May-2017	Corrected	Corrected	
41	New Finding: Earth connections for different electrical installation are not segregated	All the earth connections (transformer, generator and electrical systems) must be segregated and clearly marked (for 'TT' earthing system).	1 Month	On 06/08/2017: Not Corrected. On 15/11/2017: Corrected.	30-May-2017	Corrected	Corrected	

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42	New Finding: Field information has no/less reflection in existing SLD Electrical power cables are not identified properly	Electrical SLD must be amended properly; all the required information must be mentioned there; and it shall be updated when you do significant amount of changes of your electrical system. Proper identification (by using cable marker, tag, colored heat shrink) shall be done on major power cables used in the system according to SLD.	1 Month	On 06/08/2017: Not Corrected. On 15/11/2017: Corrected.	30-May-2017	Corrected	Corrected	
43	New Finding: Safety program is initiated but has no influence in the factory	Electrical safety training and awareness program for the electrical personal and workers must be conducted and recorded. Training must have an impact on the safety attitude of the personnel.	1 Month	On 06/08/2017: Corrected.	30-May-2017	Corrected	Corrected	
44	New Finding: Earth lead cable/Earth Continuity Conductor size is inadequate/under size at BBT.	Earth lead cable/ Earth Continuity Conductor (ECC) must be resized by half of the phase. Cable size shall be selected depending on the CB's response time and phase cable's size.	1 Month	On 15/11/2017: Corrected.	15-Sep-2017	Corrected	Corrected	

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45	New Finding: Hot Spots were observed at several points.	Hot spots must be eliminated from entire electrical system and shall be always carried forward.	2 Weeks	On 15/11/2017: Corrected. No such issue was found during inspection.	20-Aug-2017	Corrected	Corrected	
46	New Finding: Insulation resistance test of electrical power cables is manipulated Earth Pit resistance record is manipulated	Insulation resistance test of all the cables (you can avoid less than 25 sq.mm) must be performed once in every 2 years' cycle and recorded (this must require a complete power shut off). All earthing systems shall be tested for resistance on any dry day not less than once in every two years. A record of every earth test made and the result shall be kept for not less than two years and shall be available to the Inspector when required.	1 Month	On 08/07/2018: Pictorial evidence for each readings are needed. On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
47	New Finding: Hot Spots were observed at several points.	Hot spots must be eliminated from entire electrical system and shall be always carried forward.	1 Month	On 13/12/2018: Corrected. No hot spot has been found.	20-Aug-2018	Corrected	Corrected	

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48	New Finding: Field information has no/less reflection in existing SLD	Electrical SLD must be amended properly; all the required information must be mentioned there; and it shall be updated when you do significant amount of changes of your electrical system.	1 Month	<p>On 08/07/2018: Factory should resubmit SLD to ACCORD for another Review with CAD file.</p> <p>On 13/12/2018: Not Corrected. Factory will submit SLD to ACCORD.</p> <p>On 18/07/2019: Not Corrected. SLD has been submitted to ACCORD.</p> <p>On 07-Nov-2019: Not Corrected. No updated SLD found.</p> <p>On 13/02/2022: Not Corrected. Factory has reviewed SLD from RSC as "Accepted" on 19/12/2020 which is not as built. Again, factory is installing new 33KV substation which need to be added in SLD and subjected to further review for changes from "Accepted" SLD.</p> <p>On 05/07/2022: Not Corrected. SLD found as built except the substation portion. It will be completed after the installation of 33 kV substation. Progress found.</p>	20-Aug-2018	<p>We were supposed to accomplish the 33 KV substation works by 31st May 2022, as per our previous work schedule, we could not finish that practically .</p> <p>The main electrical line has passed through Mirzapur Cadet College premises and through another factory as well. But they refused to do the works at that time.</p> <p>Now REB has settled everything with them and are expecting to complete the works by 7th July 2022.</p> <p>As the 33 KV sub-station installation work is still going on, SLD works are not completed yet. REB is working on installation issues and expecting to complete within 7th July. We will submit SLD by 10th July 2022.</p>	In Progress	
49	New Finding: Panel/distribution board is not firmly fixed with the foundation.	panel base must be securely fixed to the foundation. With appropriate fastening devices.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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50	New Finding: Panel has unwanted openings.	Openings should be sealed properly	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
51	New Finding: Phase barrier/separators are missing in MCCBs Power bus bars are installed congested,	Phases must be separated by insulator (a rubber type no-flammable materials shall be used for it) Power bus bar must be installed with adequate clearance (not less than 2.5 inch for L.V) between two bars. Cables must not touch opposite bus bars in any case.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
52	New Finding: Panel/Distribution boxes are inaccessible or cannot be opened to perform any maintenance work.	Each electrical distribution board/panel must be easily accessible. In case of height its top shall not be higher than 2m from base; and door opening shall be at least 90 degree.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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53	New Finding: Panel doors are not connected with earth. Earth lead cable/Earth Continuity Conductor size is inadequate/under size	All metal installation which are part of electrical system must be connected to earth to avoid electrical shock or electrocution. Earth lead cable/ Earth Continuity Conductor (ECC) must be resized by half of the phase cable. Cable size shall be selected depending on the CB's response time and phase cables' size.	1 Month	On 13/12/2018: Not Corrected. SLD has not been as built yet. On 18/07/2019: Not Corrected. On 07-Nov-2019: Not Corrected. It is pending at some location. On 13/02/2022: Not Corrected. No progress observed for panel board earthing. Few BBT & panel found without body earthing as earthing bar installed on insulator. On 05/07/2022: Corrected.	20-Aug-2018	6 Panel doors were not connected with earth, now all the panel doors are connected with earth properly. Panel board of the substation has been changed with the proper size of earth lead cables/ earth continuity conductors. Besides sub-station we ensured proper sized earth conductors in all required areas.	Corrected	
54	New Finding: Generator output box has openings	Unwanted openings shall be sealed properly.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
55	New Finding: Indicator lights are mounted without control device.	Indicator lights should be connected by control device such as rated fuse or MCB.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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56	New Finding: Cable duct/channels are filled with fluffs (Lint/dust).	Cable channels/ducts must be kept neat and clean; these must be sealed properly thus no scope of ingress of fluffs.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
57	New Finding: Buchholz relay is not connected with the protection system	Connect the Bucholtz relay with the protection system	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
58	New Finding: Transformer Breather oil cup is empty	Transformer breather oil cup must be filled not more than 70% of its capacity.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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59	New Finding: Inadequate working space around transformer for performing maintenance work	Minimum working space (1.07m) around the transformer (and related electrical installations) must be maintained	1 Month	On 13/12/2018: Not Corrected. On 18/07/2019: Corrected.	20-Aug-2018	Corrected	Corrected	
60	New Finding: Cables are laid on floor without any support. Cables are hanging without proper support.	Use a cable tray to ensure adequate support and cover it by checkered plate. Use cable tray/ladder to support cables at any where to keep cable out of tension.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
61	New Finding: Distribution boards have no clear identification markings. Instruction for CPR (Cardiopulmonary Resuscitation) or Electrical shock restoration is not present No/Inadequate rubber (insulation) mat at the working area of distribution board/panel.	All distribution boards, switchboards, sub main boards and switches shall be marked clearly for proper identification. CPR instruction shall be hanged near all electrical installations (LT panel, MDB, FDB, DB, SDB) at visible location Electrical insulation (not less than 3 mm thick in case of rubber mat) at the working area of each electrical installation (Transformer/LT panel/MDB/DB/SDB/ other manual operated machineries) must be ensured.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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62	New Finding: Boiler feed pump has inadequate/no earthing connection	Each electrical installation must have proper earth connection.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
63	New Finding: Air terminal baseplate & run conductor is not connected properly Metallic bonding, run conductors & air terminals are missing Air terminals are not installed at proper height, etc.	Modification shall be done according to acknowledged standard	1 Month	On 13/12/2018: Not Corrected. On 18/07/2019: Corrected.	20-Aug-2018	Corrected	Corrected	
64	New Finding: Combustible materials are tied with BBT	Combustible materials shall be removed from electrical system.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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65	<p>New Finding: Circuit breaker rating is not identifiable.</p> <p>MCCBs are not adjusted per load demand.</p>	<p>Replace the old breaker with a new one so that anyone can know the ampacity of the breaker.</p> <p>All the MCCBs must be adjusted per cable current ampacity/load current; if adjustment is not possible, replacement will be the only way.</p>	1 Month	<p>On 13/12/2018: Not Corrected.</p> <p>On 18/07/2019: Not Corrected.</p> <p>On 07-Nov-2019: Not Corrected.</p> <p>On 13/02/2022: Not Corrected. No significant progress observed for oversized circuit breakers.</p> <p>On 05/07/2022: Corrected.</p>	20-Aug-2018	<p>We already changed all the non identifiable circuit breakers.</p> <p>We adjusted all the MCCBs as per load demand.</p>	Corrected	
66	<p>New Finding: Tap-off box has openings</p> <p>Cable channel/duct terminals are left open for ingress of lint, dust or fluffs.</p>	<p>Unwanted openings should be sealed & BBT end cover needs to be installed</p> <p>cable ducts must be properly sealed to avoid ingress of any foreign particles.</p>	1 Month	<p>On 13/12/2018: Corrected.</p>	20-Aug-2018	Corrected	Corrected	
67	<p>New Finding: Cables in service are joined (splicing) between terminations.</p> <p>Flexible PVC pipe has been used inside the panel covering cables.</p>	<p>Splicing in the power cables shall be avoided; in unavoidable cases splicing, must be made following proper guidance.</p> <p>Flexible PVC pipe has been used inside the panel covering cables.</p>	1 Month	<p>On 13/12/2018: Corrected.</p>	20-Aug-2018	Corrected	Corrected	

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68	New Finding: Multiple cables (came from different electrical consumers) terminated at MCCB terminals/ Busbar.	Each electrical circuit must be terminated at single MCB/MCCB terminals.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
69	New Finding: Power cables are bent excessively	Power cables must be installed as straight as possible; in unavoidable case, not less than 135-degree bending can be allowed.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	
70	New Finding: HT Cable dropping from 11kV OH line is not firmly supported to the pole and not protected at the base if the pole above ground level.	HT cable dropping from 11kV pole must be firmly fixed to the pole with supports and clamps and protected by steel/PVC ridged conduit up to minimum of 2 meters above ground level.	1 Month	On 13/12/2018: Corrected.	20-Aug-2018	Corrected	Corrected	

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71	New Finding: Panel/Distribution box is inaccessible or cannot be opened to perform any maintenance work.	Each electrical distribution board/panel must be easily accessible. In case of height its top shall not be higher than 2m from base; and door opening shall be at least 90 degree.	1 Month	On 07-Nov-2019: New Finding On 13/02/2022: Not Corrected. Few panel boards and MCB boxes are not easily accessible at few locations. On 05/07/2022: Corrected.	19-Dec-2019	All electrical distribution board/panel are easily accessible now.	Corrected	
72	New Finding: Transformer neutral and body earthing (equipment earthing) cable size is inadequate.	System and equipment earthing cable size must be increased. The earth cable size shall be determined according to BNBC or Adiabatic method (if possible). Number of earth pits shall be determined by the size of connected earth cable.	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	We have used a proper size Earth cable.	Corrected	
73	New Finding: No mechanical guards are provided for rotating electrical equipment where necessary.	Adequate and proper safety measures must be taken for all the rotary type installation. Mechanical guard (for rotary devices) shall be provided to avoid accident.	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	We have installed protective cover for two generators. Remaining 3 generators protective cover works are going on . Hope it will be complete within 25th June 2022.	Corrected	

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74	New Finding: Circuit is drawn from bus bar without any protective means.	Each electrical circuit must be drawn from distribution board busbar using a proper type of protection arrangement (MCCB/MCB).	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	All circuits are drawn from the bus bar now using circuit breakers.	Corrected	
75	New Finding: Power cables are bent excessively.	Power cables must be installed as straight as possible; in unavoidable case, not less than 135-degree bending can be allowed.	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	Power cables are already installed with proper bending.	Corrected	
76	New Finding: Cables are hanging without proper support or laid on tray without protection. Cable tray is overloaded with excessive cables.	Cable tray/ladder must be used to support cables at anywhere to keep cable out of tension. Proper sized cable tray must be installed. Need to use covered cable tray at floor level.	1 Month	On 05/07/2022: Not Corrected. Found significant progress. Only transformer cable is not well dressed.	15-Mar-2022	We already used proper size cable tray /ladder to support cables everywhere to keep cable out of tension & to avoid overload.	In Progress	

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77	New Finding: Cables are laid on floor inside cable trench haphazardly.	Cables inside cable trench have to be guided and routed properly. A cable tray shall be installed in the trench to ensure proper support and dressing for cables.	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	Already we have used the cable tray inside the cable trench properly.	Corrected	
78	New Finding: Multiple cables (came from different electrical consumers) terminated at BBT terminal.	Each electrical circuit must be terminated at single terminal.	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	Every electrical circuit is terminated at a single terminal.	Corrected	
79	New Finding: PVC pipe used for wiring in storage area.	In storage area, wiring shall be done by GI pipe/solid metal duct or concealed wiring system.	1 Month	On 05/07/2022: Corrected.	15-Mar-2022	In the storage area, we are using a GI pipe for the wiring system.	Corrected	

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80	New Finding: Indicator lamps and metering devices (Ammeter, Voltmeter) installed on panel board are not operational.	All indicator lamps and metering devices installed on panel board shall be operational. Otherwise, it may provide false information.	1 Month	On 05/07/2022: Not Corrected. Few indicators are not working in LT panel.	15-Mar-2022	By changing, Indicator lamps and metering devices (Ammeter, Voltmeter) are installed on panel boards & made them operational now.	In Progress	
81	New Finding: Distribution Board's top/bottom is left open (typical issue)	Each electrical distribution board/panel must be properly sealed to avoid ingress of fluffs; but an adequate ventilation system must also be ensured. Gland shall be used, where required.	1 Month		15-Aug-2022			
82	New Finding: Maintenance movement is obstacle due to uneven height of cable trench in utility area (transformer room).	Work place around transformer (or other electrical installation) must be on same height.	1 Month		15-Aug-2022			