

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (13TH)

Factory Name	Raidha Collection Ltd.					Note:
Address	Habirbari, Zamirdia, Valuka, Mymensingh					
FACTORY ID	11304	ELECTRICAL SAFETY INSPECTION DATES				Other Factory: ----- ----- ----- ----- ----- -----
Initial Inspection Date	06-Aug-2014	Date of 5 th Follow Up	07-Nov-2016	Date of 11 th Follow Up	13-Nov-2018	
Report Received Date	25-Sep-2014	Date of 6 th Follow Up	10-Jan-2017	Date of 12 th Follow Up	11-Apr-2019	
Date of 1 st Follow Up	24-Aug-2015	Date of 7 th Follow Up	10-Apr-2017	Date of 13 th Follow Up	22-Jul-2019	
Date of 2 nd Follow Up	22-Feb-2016	Date of 8 th Follow Up	20-Jul-2017	Date of 14 th Follow Up		
Date of 3 rd Follow Up	26-Apr-2016	Date of 9 th Follow Up	14-Dec-2017	Date of 15 th Follow Up		
Date of 4 th Follow Up	22-Aug-2016	Date of 10 th Follow Up	18-Jul-2018	Date of 16 th Follow Up		
Inspected by		Banna Kasemi				

Item No	Accord Inspection Observation	Accord Action Plan (Recommendation)	Accord Time line (given in report)	Comments from Accord (After Physical Inspection)	Final Timeline (Approved timeline)	Final Action Plan (Factory)	Progress Status (On the date of inspection)	Pictorial Evidence
1	<p>1. As built electrical SLD, wiring layout designs and drawings are not prepared</p> <p>2. Thermo graphic scanning of the entire electrical system has not been performed</p> <p>3. Insulation resistance test not performed</p> <p>4. Electric Safety Program is not initiated</p>	<p>1. The factory must have As-built electrical SLD with electrical wiring layout designs and drawings. Any changes in load, protection system, conductors, Generation and supply system must be reflected in the As-built SLD and drawings.</p> <p>.2. Thermo graphic scanning of the entire electrical system must be performed on tri-annual basis and recorded</p> <p>3. Insulation resistant test of all the cables must be performed once every 5 year cycle and recorded</p> <p>4. Electrical safety training and awareness program for the electrical personal and workers must be initiated and recorded</p>	PRIORITY: P1 5 weeks	<p>On 22-04-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16</p> <p>On 26-04-16: Verified & Corrected. SLD reviewed by Accord & acknowledged with some minor modifications. Check physically & found no major mismatch with the existing installation.</p>	31-Mar-2016	Completed	Corrected	

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2	HT cable dropping from 11kV pole must be protected in steel pipe of required size at least 2m from the ground level to protect from physical injury by moving objects. The vegetation thriving near the HT line must be cleared	HT cable dropping from 11kV pole must be protected in steel pipe of required size at least 2m from the ground level to protect from physical injury by moving objects. The vegetation thriving near the HT line must be cleared.	PRIORITY: P2 2 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
3	Power and control wiring of boiler are carried through flexible PVC pipe	Use industrial graded (heat resistant) pipe for control and power wiring of boiler.	PRIORITY: P2 3 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
4	Cables or wiring drawn in flexible PVC conduits, laid outside without support	Cables laid outside building must be supported in covered cable trays and protected against weather and possible physical damages.	PRIORITY: P2 5 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	

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5	Cables encased in flexible PVC pipe carried from one floor to another through floor not supported. (Typical)	Flexible conduits must be replaced with cable ducts, ladder or riser and must be securely clamped at regular intervals.	PRIORITY: P2 5 weeks	On 22-02-16: Time line extended from 31-03-16 to 15/04/2016 On 26-04-16: PVC flexible pipe removed & cables supported by cable ladder. Telecommunication cables & other cables shall be laid separately.	15-Apr-2016	Done	Corrected	
6	Power cables laid on concrete floor.	Construct cable trench to protect the cables to ensure the mechanical protection of the cable laid on floor otherwise cable insulation may damage due to falling object or stepping of occupants onto it.	PRIORITY: P3 10 weeks	On 22-02-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: This issue is not corrected yet. New committed timeline is 31-05-16 to close this issue. On 22-08-16: Corrected.	31-May-2016	Done	Corrected	
7	MCCB kept on the floor without enclosures	Protective devices should be fixed on walls, encased in metal casing made of 20 SWG thickness metal sheets to reduce the risk of fire spreading due to short circuit.	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	

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8	Wirings in flexible PVC conduit entering panels are not firmly fixed.	Install cable tray/duct for supporting the cables. Use industrial graded flexible pipes(if required) with clamped with saddle at a spacing not exceeding 600 mm.	PRIORITY: P3 5 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
9	High earth loop impedance measured.	Check the earthling connection (for loose connections) and rectify as required.	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
10	Panel base plate removed for cable entry.	Panel base plate must be installed and cable(s) entering panel must be firmly fixed with cable gland.	PRIORITY: P3 5 weeks	On 22-02-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: This issue is not corrected yet. New committed timeline is 31-05-16 to close this issue. On 22-08-16: Corrected.	31-May-2016	Done	Corrected	

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11	Generator installed along the egress. (Corridor)	The generator must be relocated in a dedicated room. The generator shall never be installed along the egress.	PRIORITY: P3 3 weeks	On 22-02-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: Generators are relocated from egress route to newly created generator room.	31-Mar-2016	Done	Corrected	
12	Openings in the panel top/base cover plate. (Typical)	Install the base/base plate of panel and make circular hole on it then provide cable gland according to the respective cable size for cable entry and exit so that the cables are not stressed on the sharp edges of the hole of panels. Provide covers if any additional gap remains after installing cable glands.	PRIORITY: P3 5 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
13	Oil cup below transformer breather kept empty.	Breather oil cup must be filled with transformer oil to the required level as instructed by the manufacturer.	PRIORITY: P2 1 week	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	

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14	Sharp bends in HT cable.	Sharp cable bends shall be avoided such that no stress is imposed on the termination of the cable or insulation of the cable.	PRIORITY: P3 5 weeks	On 22-02-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: HT cable is supported by metallic ladder. Hence, there is no sharp bends in HT cable.	31-Mar-2016	Completed	Corrected	
15	Cable trench without cover.(Typical)	Install metallic cover (Checkered plate) onto the trench to provide mechanical support to cables and protect those cables from any physical damage.	PRIORITY: P3 3 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	
16	Low oil level in transformer.	Conservator tank (on transformer) must be checked and required oil level must be maintained.	PRIORITY: P1 3 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	

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17	Panel back cover left open to allow cable connection.	Install the back cover. All electrical panels should be sealed properly and use cable gland in the base plate or back cover of panel for cable entry or exit to panel safely to prevent cable insulation from damage.	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
18	No fire rated barrier/protection between the transformer and other occupancy (LT panel & PFI plant i.e. control panel)	Construct fire rated brick wall up to the ceiling around the transformer to separate it from other occupancy and install louvers and exhaust fan for cooling the transformer room.	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
19	Cable glands are not used and the unused gland holes are not sealed.	Cables entering/exiting panel must be provided with cable glands. The unused gland holes must be sealed with rubber sockets.	PRIORITY: P3 5 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	After installation of rubber socket.	Corrected	

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20	Multiple cables connected at a terminal of the bus bar. (Typical)	Remove all the multiple connections made at a single point of bus bar and connect individual branch cables to individual points on bus bar using individual lug according to the respective cable size.	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
21	Cables connecting to MCCB inside panel without cable lugs. (Typical)	Cables shall be connected to terminals only by soldered/ welded lugs according to cable size.	PRIORITY: P3 1 week	Already corrected at first follow-up inspection.	25-Oct-2014	Done	Corrected	
22	Panel doors not connected with earth bond. (Typical)	Provide earth connection for body and doors of metallic distribution boards using green cables preferably braid so that the metallic door remains at zero potential all the time.	PRIORITY: P2 1 week	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	

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23	Wirings in flexible PVC conduit entering panels are not firmly fixed.(Typical)	Wiring in flexible PVC conduit must be supported near panel on tray/riser to prevent stress at the termination/entry point. Flexible conduit must end at gland of base-plate (Flexible conduit shall not installed inside the panel).	PRIORITY: P3 5 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
24	Cables laid on tray, without conduit. (Typical)	Cables supported in cable trays must be drawn in a rigid conduit and firmly tied to the tray with cable-tie at regular intervals. The tray shall be installed for the throughout its length.	PRIORITY: P3 10 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
25	Flexible PVC conduit wiring not supported. (Typical)	Use rigid PVC pipe for surface and exposed wiring throughout its length and supported properly (clamped with saddle, at regular interval of 600 mm).The conduit shall run vertically or horizontally, shall never at angle. Flexible conduit must not be used for long point wiring (except for special wirings).	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	

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26	Cables connecting to bus bar without cable lugs/ sockets.	Cables connecting to bus-bars inside panel must be connected firmly with cable lugs. Cable terminating to the bus-bars must be fixed with proper size nuts, bolt and washer.	PRIORITY: P3 1 week	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
27	The MCBs mounted on the cable ducts without proper enclosure. (Typical)	The MCBs must be installed in a full enclosure set.	PRIORITY: P3 5 weeks	Already corrected at first follow-up inspection.	25-Oct-2014	We have completed the issue as per accord plan.	Corrected	
28	The BBT tap off box not installed with the side plate.(Typical)	The cable entering/ exiting the tap off box must be provided with proper size of cable glands. The unsupported flexible PVC conduit must be supported.	PRIORITY: P3 3 weeks	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	

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29	New Finding: Lightning Protection System(LPS) has not installed yet	Design and Install LPS for your factory; Factory have to submit LPS design to Accord before starting installation.	Within 4 Months	On 22-04-16: Timeline extended from 31-03-16 to 20/04/2016 On 26-04-16: LPS installed according to NFPA 780 & it completely reflects on the installation.	20-Apr-2016	Done	Corrected	
30	New Finding: Hot spots at terminations inside panel.	Find out the root cause & solve the issue immediately.	Immediate	On 22-04-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: No major hot spots found at the time of inspection.	31-Mar-2016	Completed	Corrected	
31	New Finding: Earth bus bar kept unused, no earthing provided in one floor & earth cable size inadequate.	Provide earthing connection & Use adequate sized earthed bus bar. Resize earth lead cable/ECC for LT panel/MDB/DB; follow BNBC 2006 Part 8 chapter 2 section 2.8 for sizing your earthing cables (Usually ECC should be equal to the half of the respective phase cable).	Within 2 Months	On 22-04-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: Not corrected. New timeline is 31-05-16 to close this issue. On 22/08/2016: Not corrected. 07.11.2016: Corrected.	31-May-2016	Done	Corrected	

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32	New Finding: Multiple cables terminated at MCCB terminals / Bus bar.	Terminate each power cable at single terminal and use proper sized cable lug.	Within 1 Month	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
33	New Finding: Inadequate space around transformer for performing maintenance work	Ensure minimum 1.07m working space around the transformer (and related electrical installations)	Within 4 Months	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
34	New Finding: Earth connections are not segregated. Transformer neutral and system earthing are connected in same bus.	Ensure separate earthing connection for all neutrals, Generator body, transformer body, Electrical system and Lightning Protection System. Mark them all.	Within 2 Months	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	

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35	New Finding: Generator output cables (laid on floor) are not protected and supported.	If possible route all the power cable through overhead cable tray. Or ensure adequate protection for power cables arranging cable trench with checkered plate. Do not make any arrangement that obstacle personnel's movement within working clearance.	Within 2 Months	On 22-02-16: This issue is not corrected. New timeline to resolve the issue is 31-03-16 On 26-04-16: Generator output cables are supported by ladder now. Cable trench formed. Cover the cable trench by checkered plate.	31-Mar-2016	Done	Corrected	
36	New Finding: Cable duct/ channels are filled with fluffs (Lint/dust)	Clean all the cable channels/ducts; then cover them (you may use checkered/ perforated plate at the bottom). And after each maintenance, keep record.	Within 1 Month	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
37	New Finding: Electrical sockets are kept in wooden base.	Use non-flammable base for all electrical Switches & Sockets.	Within 2 Months	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	

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38	New Finding: Circuit is drawn from bus bar without Circuit breaker or any protective means.	For distribution board, along with the main circuit breaker all outgoing circuits shall have individual outgoing circuit breaker.	Within 2 Months	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	
39	New Finding: Oversized circuit breakers or Circuit breakers are not adjusted accordingly	Adjust or replace all the MCCBs/MCBs according to cable ampacity (connected load). Avoid using different sized cable at the terminals	Within 2 Months	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
40	New Finding: No/Inadequate rubber (insulation) mat on the working area of distribution board/panel.	Put electrical insulation (rubber mat) on the working area of each electrical installation (Transformer/LT panel/MDB/DB/SDB/ other manual operated machineries)	Within 1 Month	Already corrected at second follow-up inspection.	25-Oct-2014	Already done as per accord plan	Corrected	

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41	New Finding: Instruction for CPR (Cardiopulmonary Resuscitation) or Electrical shock restoration is not present	Hang this instruction near all electrical equipment (LT panel, MDB, FDB, DB, SDB) on a visible location	Within 1 Month	Already corrected at second follow-up inspection.	25-Oct-2014	Done	Corrected	
42	New Finding: Cables/BBT passing through wall/floor slab are not protected at the entry/exit point(s)	Cables/BBT passing through permanent wall/floor slab must be protected. Seal the opening by fire rated material protecting power cables thus no smoke can pass through this	Within 3 Months	On 22-02-16: Timeline extended from 31-03-16 to 15/04/2016 On 26-04-16: Work is in progress. Seal it properly by fire rated material. New committed timeline is 15-06-16 to close this issue. On 23/08/2016: Corrected.	15-Jun-2016	Done	Corrected	
43	New Finding: Panel base plate removed for cable entry.	Panel base plate must be installed and cable(s) entering panel must be firmly fixed with cable gland.	1 Month	On 10/04/2017: Corrected.	20-Feb-2017	Done	Corrected	

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44	New Finding: Phase barrier/separator has not installed.	Put purposely made phase separator (rubber type) between two phases; also terminate cables by proper sized cable lugs and cover cable lugs by heat shrink.	1 Month	On 10/04/2017: Not corrected. Time extension is given till 30/05/2017. On 20/07/17: Corrected	30-May-2017	Done	Corrected	
45	New Finding: Cable duct/ channels are filled with fluffs (Lint/dust)	Clean all the cable channels/ducts; then seal them for permanent (you may use checkered/perforated plate at the bottom). But ensure that you have used proper sized cable for all of your electrical loads.	1 Month	On 10/04/2017: Not corrected. Time extension is given till 30/05/2017. On 20/07/17: Corrected	30-May-2017	Done	Corrected	
46	New Finding: Loop connection has used powering multiple MCBs/MCCBs.	Eliminate loop cables; use single cable for each MCBs/MCCBs. You may use bus bar to avoid multiple termination.	1 Month	On 10/04/2017: Not corrected. Time extension is given till 30/05/2017. On 20/07/17: Corrected	30-May-2017	Done	Corrected	

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47	New Finding: Transformer Silica gel is discolored	Replace silica gel by a new one; or dry it under sun and reuse it, if color regains.	1 Month	On 10/04/2017: Corrected.	20-Feb-2017	Done	Corrected	
48	New Finding: Exposed and heated steam line is close to bus bar.	Bus bar close/attached to steam line/heat source must be protected from external heat. In unavoidable case provide proper insulation for the heat source/steam line. Normally power cable should keep 0.9m apart from hot area.	1 Month	On 10/04/2017: Corrected.	20-Feb-2017	Done	Corrected	
49	New Finding: Power cables entering to or exiting from Distribution board/panel are not properly fixed.	Power cables entering to or exiting from distribution board/panel must be fixed through Panel base/top plate using cable glands (metal/PVC). You may use cable tray/ladder to support cables.	1 Month	On 10/04/2017: Corrected.	20-Feb-2017	Done	Corrected	

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50	New Finding: Insulation resistance test of electrical power cables 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).	1 Month	On 11/04/2019: Not Corrected. New report is not matched some areas with field information. On 22/07/2019: Not Corrected. Cable sizes are wrongly typed. Again, no pictorial evidence for the measurement data are available.	31-Dec-2018		In Progress	
51	New Finding: Transformer Oil Test (dielectric strength test) report is unavailable	Transformer oil test (dielectric strength test for oil) shall be done once in a year.	1 Month	On 11/04/2019: Corrected. Report is available for 2x1250, 1x2500, 1x5000kva transformers.	31-Dec-2018		Corrected	
52	New Finding: Earth Pit resistance record is manipulated Earth pits are not identifiable	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. Each earth pit shall be properly identifiable and permanently marked for periodic maintenance.	1 Month	On 11/04/2019: Not Corrected. Earth pits are identifiable but test report not covered all Pits. On 22/07/2019: Corrected.	31-Dec-2018	Done	Corrected	

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53	New Finding: Thermography survey record is not done on full load	Thermography survey must be done and recorded at least twice in a year. Hot spots must be removed.	1 Month	On 11/04/2019: Corrected.	31-Dec-2018		Corrected	
54	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	Factory should resubmit SLD to ACCORD for another Review with CAD file. On 11/04/2019: Not Corrected. SLD needs modifications. On 22/07/2019: Not Corrected. SLD still needs modifications.	31-Dec-2018		In Progress	

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55	New Finding: Both LPS installation & Drawing need modification	Modification work shall be done according to acknowledged standard	1 Month	<p>On 11/04/2019: Not Corrected.</p> <p>i. Drawing is not match with actual conditions;</p> <p>ii. some areas (child care, sub-station, compressors room etc.) are not under protection zone of LPS;</p> <p>iii. (150X50)ft Mesh is not maintained;</p> <p>iv. Air terminals are not installed at desire height at some areas.</p> <p>On 22/07/2019: Not Corrected. Mesh length and width is still not maintained in main roof (both length and width are more than 150 and 50 ft respectively. Other areas (child care, SS room, compressor room) are still not protected. Distance between two air terminals are still more than 25 ft at edges and more than 50ft at cross-run areas. Solar panel and Water tank (plastic and RCC) are not protected.</p>	31-Dec-2018		In Progress	
56	New Finding: Cable tray is overloaded with excessive cables; eventually top cover has no effectiveness.	Proper sized cable tray must be installed; a perforated one is better and 20-25% space in cable tray/duct shall be kept free.	1 Month	<p>On 11/04/2019: Not Corrected.</p> <p>On 22/07/2019: Not Corrected.</p>	31-Dec-2018		In Progress	

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57	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 11/04/2019: Corrected.	31-Dec-2018		Corrected	
58	New Finding: Circuit breaker rating is not identifiable. MCCBs are not adjusted per load demand.	Replace the old breaker with a new one so that anyone can know the ampacity of the breaker. All the MCCBs must be adjusted per cable current ampacity/load current; if adjustment is not possible, replacement will be the only way.	1 Month	On 11/04/2019: Not Corrected. Circuit breaker is identifiable but still found over sized MCCB. On 22/07/2019: Not Corrected. Still available at other places.	31-Dec-2018		In Progress	 
59	New Finding: Multiple cables (came from different electrical consumers) terminated at MCCB terminals/ Busbar. Cable connected to busbar/MCCB/MCB terminal without cable lug.	Each electrical circuit must be terminated at single MCB/MCCB terminals.	1 Month	On 11/04/2019: Not Corrected. Connection without lug was not found. On 22/07/2019: Not Corrected.	31-Dec-2018		In Progress	 

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60	New Finding: Cable channel/duct terminals are left open for ingress of lint, dust or fluffs. Cable duct/channels are filled with fluffs (Lint/dust).	cable ducts must be properly sealed to avoid ingress of any foreign particles. Cable channels/ducts must be kept neat and clean; these must be sealed properly thus no scope of ingress of fluffs.	1 Month	On 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected.	31-Dec-2018		In Progress	
61	New Finding: Phase barrier/separators are missing in MCCBs	Phases must be separated by insulator (a rubber type no-flammable materials shall be used for it)	1 Month	On 11/04/2019: Corrected.	31-Dec-2018	Corrected	Corrected	
62	New Finding: Electrical power cables are not identified properly	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 11/04/2019: Not Corrected. As-built drawing is not ready yet. On 22/07/2019: Not Corrected.	31-Dec-2018	In progress	In Progress	

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63	<p>New Finding: No policies for PPE & LOTO (Lock-Out-Tag-Out) are introduced for safety of the personnel during any kind of maintenance work.</p> <p>Uninsulated electrical tools are used by maintenance personnel in the factory</p> <p>Electric safety training program document is not enriched enough</p>	<p>Need to introduce and implement PPE & LOTO policy with LOTO (Lock-Out-Tag-Out) device instead of any other means to ensure safety of the personnel during any maintenance. Need to keep all records of using LOTO.</p> <p>For maintenance purposes, all the electrical tools shall be properly insulated and these insulations shall be checked periodically.</p> <p>It is a periodic task which factory has to continue to improve overall electrical safety situation for the staffs.(Factory may follow NFPA 70E)</p>	1 Month	On 11/04/2019: Corrected.	31-Dec-2018	Done	Corrected	
64	New Finding: Tap-off box has openings & BBT end cover is missing	Unwanted openings should be sealed & BBT end cover needs to be installed	1 Month	On 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected.	31-Dec-2018		In Progress	



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65	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 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected.	31-Dec-2018		In Progress	
66	New Finding: Cables running along the ladder are not securely fastened Wiring using flexible/rigid PVC pipe- this arrangement does not have any support for cables Cable tray is overloaded with excessive cables;	Cables along the cable tray/s must be fastened properly with an interval A cable ladder must be used; if it is routed through outside wall, either the cable ladder must be covered or a cable duct must be used Proper sized cable tray must be installed; a perforated one is better and 20-25% space in cable tray/duct shall be kept free.	1 Month	On 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected.	31-Dec-2018		In Progress	
67	New Finding: Unterminated live wire is kept inside the electrical panel/cable tray.	All the unterminated live power cables must be removed as soon as possible.	1 Month	On 11/04/2019: Not Corrected. On 22/07/2019: Corrected. Not found during inspection.	31-Dec-2018		Corrected	

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68	New Finding: Exhaust fan body and fan blade enclosure has no earth connection	Exhaust fan frame and its enclosure in the production area/s shall be connected to earth.	1 Month	On 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected. Some Motor frames do not have Earth connection. However, work is going on.	31-Dec-2018		In Progress	
69	New Finding: Loop connection has been used powering multiple circuits through MCB/MCCBs.	No loop connection shall be used; each single cable shall be terminated using cable lug (flat/I) at each terminal. Combo bus bar may be used (but incoming cable size must meet the rated capacity)	1 Month	On 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected.	31-Dec-2018		In Progress	

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70	<p>New Finding: Cable termination at the motor terminal box is directly connected to terminals without proper gland.</p> <p>Manually operated machines & Motor/Pumps are not earthed properly.</p> <p>Panel doors are not connected with earth.</p>	<p>All equipment termination must be done with proper termination including cable glands to avoid ingress of moisture and dust entering the terminals.</p> <p>Ensure earthing connection for all Manually operated machines & motor/pumps coil and body.</p> <p>remove combustible materials(wooden plunk)</p>	1 Month	<p>On 11/04/2019: Not Corrected.</p> <p>On 22/07/2019: Corrected.</p>	31-Dec-2018	Done	Corrected	 
71	<p>New Finding: Large exhaust fans are controlled bypassing DOL</p>	<p>Induction motor driven fans (which has high inrush current) must not be operated directly using MCB; Direct-On-Line (DOL) type control switch must be used.</p>	1 Month	<p>On 11/04/2019: Corrected.</p>	31-Dec-2018		Corrected	

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72	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 11/04/2019: Not Corrected. On 22/07/2019: Corrected.	31-Dec-2018	Done	Corrected	
73	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 11/04/2019: Not Corrected. On 22/07/2019: Not Corrected.	31-Dec-2018	In progress	In Progress	
74	New Finding: Flexible PVC pipe is used to cover power and signal cable for boiler	Power and signal cable for boilers shall be distributed using proper type insulator to avoid damage of cables.	1 Month	On 11/04/2019: Corrected.	31-Dec-2018		Corrected	

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75	New Finding: Generator output box has openings. Panel has unwanted openings.	Unwanted openings should be sealed	1 Month	On 11/04/2019: Not Corrected. Panel base plate not installed. On 22/07/2019: Not Corrected. No progress found. All panels in Sub-Station room are required to be adressed.	31-Dec-2018		In Progress	
76	New Finding: Inadequate sized earth cable connected to generator frame. Transformer Body earthing (equipment earthing) cable size is inadequate	Two separate earth connection & one separate and distinct Neutral connection must be provided over generator. Generator body must have earth connection with half of phase conductor/follow manufacturer/suppliers recommendation. Equipment earthing cable size must be increased. The earth cable size shall be less than or equal to half of the phase cable (depends on fault clearing time). You may use equivalent sized bare copper conductor. Number of earth pits shall be determined by the size of connected earth cable.	1 Month	On 11/04/2019: Not Corrected. Still earth conductors are inadequate. On 22/07/2019: Not corrected. Generator Earth connection work is done. However, Transformer Earth connection is ongoing.	31-Dec-2018	In progress	In Progress	
77	New Finding: Lead acid battery terminals are left open	Lead acid battery terminals must be covered/capped and rust must be checked and cleaned.	1 Month	On 11/04/2019: Corrected.	31-Dec-2018	Done	Corrected	

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78	New Finding: Interlocking is not provided for powering common busbar from different sources.	Interlocking must be provided for feeding power from multiple sources.	1 Month	On 22/07/2019: Corrected.	21-May-2019	Done	Corrected	
79	New Finding: HT leakage current collector is not connected with earthing system.	HT leakage current collector must be connected with earthing system with adequate size earthing cable.	1 Month	On 22/07/2019: Not Corrected. Need to increase conductor size (collectively).	21-May-2019		In Progress	
80	New Finding: Three phase MCCB is used as single (input terminals are connected to three separate power bus bars)	A three phase MCCB/MCB must be used for three phase circuit.	1 Month	On 22/07/2019: Not Corrected.	21-May-2019		In Progress	


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81	New Finding: Power cables inside cable trench are buried by sand/soil.	Power cables should not be buried directly in any case. If it is not designed through sand/soil, removal of sand/soil must be done.	1 Month	On 22/07/2019: Corrected.	21-May-2019	Done	Corrected	
82	New Finding: Sharp edge of gland hole of metal enclosure is not insulated. Potential risk of cable damage.	Sharp edge of metal shall be insulated (proper size cable gland can be used to protect the cable).	1 Month		30-Sep-2019			
83	New Finding: MCCB knob is borken/damaged.	Need to replace the MCCB to provide adequate control.	1 Month		30-Sep-2019			

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84	New Finding: Electrical protection device (DOL starter) is not safely installed. It is loose and not fixed with base.	Need to fix the DOL with non-flammable base to avoid loose connections with the terminals of cables.	1 Month		30-Sep-2019			
85	New Finding: Power Cables are hanging without proper support.	Power cables must be supported by cable tray (ladder- where needed). Outdoor arrangement must be covered.	1 Month		30-Sep-2019			
86	New Finding: Circuit breaker for Emergency power is not connected to busbar of the enclosure in which it is installed.	Circuit breaker for Emergency power shall be in a separate enclosure and shall be inaccessible from unauthorised personnel.	1 Month		30-Sep-2019			

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87	<p>New Finding: Cable is burnt at terminals.</p>	<p>Replace the terminal and need to check the connection, terminals and the loading condition to find the reason and need to act accordingly.</p>	1 Month		30-Sep-2019			
88	<p>New Finding: Cable is not terminated properly with proper size cable lugs, nut-bolts and washer.</p>	<p>Cable shall be terminated properly with proper size cable lugs, nut-bolts and washer. Need to remove heat shrink tube from the termination point.</p>	1 Month		30-Sep-2019			
89	<p>New Finding: The busbar of the MCCB terminal is installed improperly and it is installed very closed to the metal frame of the enclosure.</p>	<p>The busbar of the MCCB terminal shall be installed properly and it must maintain a gap of 50mm from the metal frame of the enclosure.</p>	1 Month		30-Sep-2019			

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90	New Finding: The circuit breaker enclosure is not fixed.	CB enclosure shall be fixed.	1 Month		30-Sep-2019			
91	New Finding: BBT body has no direct earth (One 240 mm2 cable is connected in frame/support, but no earth is found in the BBT enclosure).	Need to ensure adequate earth connection at BBT enclosure.	1 Month		30-Sep-2019			
92	New Finding: LT Panel has inadequate Earthing.	Need to ensure adequate earth connection at all panels as per standard.	1 Month		30-Sep-2019			

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93	<p>New Finding: Oversized circuit breakers or Circuit breakers are not adjusted accordingly</p>	<p>Adjust or replace all the MCCBs/MCBs according to connected load and cable ampacity. It is required to avoid using different sized cable at the terminals</p>	1 Month		30-Sep-2019			
94	<p>New Finding: Ammeter and indicator lamps are not functional.</p>	<p>All components/devices shall be functional.</p>	1 Month		30-Sep-2019			
95	<p>New Finding: Generator cables are obstructing the easy access and cables are installed on floor.</p>	<p>Cables shall laid such that they do not obstruct the access and all cables shall be protected from external damage.</p>	1 Month		30-Sep-2019			

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96	New Finding: Outdoor cable tray/ladders are not protected.	Outdoor cable tray/ladders shall be covered properly to avoid seasonal effect on cables and its longevity.	1 Month		30-Sep-2019			
97	New Finding: LPS pit and Generator pit are merged together and close (without installing SPD).	LPS pit and electrical earth pit shall be separated unless adequate protection is provided (eg. SPD).	1 Month		30-Sep-2019			