

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (05TH)

Factory Name	atashi fashion ltd. (New)					Note:
Address	Plot No. 83/2 , Joypura, Dhamrai, Dhaka					
FACTORY ID	23208	ELECTRICAL SAFETY INSPECTION DATES				Other Factory: ----- ----- -----
Initial Inspection Date	10 Jun 2018					
Report Received Date	06-Aug-2018					
Date of 1st Follow Up	02-Jan-2019					
Date of 2nd Follow Up	10-Oct-2019					
Date of 3rd Follow Up	21-Jul-2022					
Date of 4th Follow Up	14-Jan-2024					
Date of 5th Follow Up	11-Jun-2024					
Inspected by		Asif Iqbal				

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	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 02/01/2019: Corrected.	05-Sep-2018		Corrected	
2	Cable trench is left open.	Ensure adequate cover for cable trench using checkered plate bearing floor height.	1 Month	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	

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3	Power cables entering or exiting from Distribution board/panel are not properly fixed.	Power cables entering or exiting from distribution board/panel must be fixed through Panel base/top plate using proper sized cable glands (metal/ PVC).	1 Month	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	
4	Earth lead cable/Earth Continuity Conductor size is inadequate/undersize.	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.	2 Months	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	
5	Generator output cables (laid on floor) are not protected and supported.	Service cables from generator must be supported at its own breaker's terminal and with cable tray.	1 Month	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	

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6	Inadequate sized earth cable connected to generator frame.	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.	2 Months	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	
7	MCCBs are not adjusted per load demand.	All the MCCBs must be adjusted per connected load current; if adjustment is not possible, replacement will be the only way.	2 Months	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	
8	Wiring or extensions to connect equipment/ devices are laid on floors unprotected in flexible PVC.	The cable connection to machines/ equipment may be run under the checkered plates (existing) and in trenches or steel conduits. Other options may be to use cable trays and supports to protect from external damages.	1 Month	On 02/01/2019: Corrected. Not Found.	05-Sep-2018		Corrected	

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9	Cables in service are joined (splicing) between terminations.	Splicing in the power cables shall be avoided; in unavoidable cases splicing, must be made following proper guidance.	1 Month	On 02/01/2019: Not Corrected. On 10/10/2019: Not corrected. They have done it improperly. On 21/07/2022: work's been started, but not finished yet. Not Corrected. Comments from RCH: On 04/11/2022: The factory management asked for a timeline up to March 2023 which is not accepted. The corrective action plan should be completed as per the RSC recommendation with immediate concern. On 14/01/2024: Corrected.	05-Sep-2018		Corrected	
10	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 02/01/2019: Corrected.	05-Sep-2018		Corrected	
11	There is no programmed schedule for periodical inspection & testing of electrical equipment.	An electrical maintenance program shall be prepared which will include inspections and testing of the electrical systems (preventive and proactive).	1 Month	On 02/01/2019: Corrected.	05-Sep-2018		Corrected	

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12	New Finding: Field information has no/ less reflection in existing SLD.	Electrical SLD must be updated properly; all the required information must be mentioned there; and it shall be updated when you do substantial amount of changes of your electrical system.	1 Month	<p>On 10/10/2019: Not corrected.</p> <p>On 21/07/2022: SLD is submitted to RSC. Not Corrected.</p> <p>On 14/01/2024: Not corrected. Significant progress has been observed. Factory got accepted SLD from RSC on 22-Mar-2022. There are some mismatch(Cable and load identification, Inadequate ECC Busbar, Oversized Breaker, Individual protection missing) between accepted SLD and actual installation.</p> <p>RPO Comments on 18-Apr-2024: The factory management is asking for a time extension which is not accepted. The corrective action plan should be completed as per the given recommendation with immediate concern.</p> <p>On 11/06/2024: Not Corrected. Factory has completed almost 60% of the remediation works but still mismatches (individual protection, earthing layout, circuit marking, load identification) have been observed as per accepted SLD.</p>	03-Feb-2019	SLD has accepted , according to SLD Busbar will be install , we will import Busbar which L/C is under process , after received the Busbar it will be completed by 30 May 2024.	In Progress	
13	New Finding: No/Inadequate rubber (insulation) mat at the working area of distribution board/panel.	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 10/10/2019: Corrected.	03-Feb-2019		Corrected	

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14	New Finding: Transformer Body earthing (equipment earthing) and neutral earthing (system earthing) is inadequate.	Earthing cable size must be increased where applicable. 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 10/10/2019: Corrected.	03-Feb-2019		Corrected	
15	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.	2 Months	On 10/10/2019: Not corrected. On 21/07/2022: work's been started, but not finished yet. Not Corrected. On 14/01/2024: Corrected.	03-Mar-2019		Corrected	
16	New Finding: Sub station and LT room has inadequate illumination.	Adequate illumination in the sub station room shall be ensured thus any maintenance can be done comfortably (around 150 lux).	1 Month	On 10/10/2019: Corrected.	03-Feb-2019		Corrected	

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17	<p>New Finding: Insulation resistance test of electrical power cables is manipulated (Data randomly copied & report has inadequate/no pictorial evidence).</p> <p>Earth Pit resistance record is manipulated (Data randomly copied & report has inadequate/no pictorial evidence).</p>	<p>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).</p> <p>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(with all relevant pictures) and shall be available to the Inspector when required.</p>	1 Month	<p>On 14/01/2024: Not corrected. Not all cables and pits are covered in the existing test report.</p> <p>RPO Comments on 18-Apr-2024: The corrective action plan should be completed as per the given recommendation with immediate concern.</p> <p>On 11/06/2024: Not Corrected. No progress has been observed. Reports were unavailable during inspection.</p>	15-Sep-2022		In Progress	
18	<p>New Finding: Safety training program module is not adequate.</p>	<p>Electrical safety training and awareness program for all electrical personal and workers must be conducted and recorded. Training must have an impact on the safety attitude of the personnel. Training module shall be enriched according to acknowledged standard.</p>	1 Month	<p>On 14/01/2024: Not corrected. No progress observed. Need to enriched the training module according to acknowledged standard.</p> <p>RPO Comments: On 18-Apr-2024 the factory management reported the remediation completion. This item will be verified in the next inspection.</p> <p>On 11/06/2024: Not corrected. Progress has been observed but still training module has not been found enriched.</p>	15-Sep-2022	Corrected	In Progress	

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19	New Finding: Panel doors are not connected with earth.	All metal installation which are part of electrical system must be connected to earth to avoid electrical shock or electrocution.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
20	New Finding: Instruction for CPR (Cardiopulmonary Resuscitation) or Electrical shock restoration is not present.	CPR instruction shall be hanged near all electrical installations (LT panel, MDB, FDB, DB, SDB) at visible location.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
21	New Finding: Power socket has no ECC connection. Lighting circuits and sockets are not separated in the electrical system.	ECC connection shall be provided to each power socket. Lighting circuits and sockets shall be installed separately (shall have no interconnections).	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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22	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 14/01/2024: Corrected.	15-Sep-2022		Corrected	
23	New Finding: Earth lead cable/ Earth Continuity Conductor size is inadequate/ undersize/ absent.	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 14/01/2024: Not corrected. There are some mismatch between SLD and actual installation. This issue is not corrected yet. RPO Comments: On 18-Apr-2024 the factory management reported the remediation completion. This item will be verified in the next inspection. On 11/06/2024: Not Corrected. ECC has been observed inadequate for LT panel, DB-1, COS panel and boiler DB.	15-Sep-2022	Corrected	In Progress	
24	New Finding: Electrical panel is not securely fixed.	Panel must be securely fixed to the foundation with appropriate nut bolts.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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25	New Finding: Uninsulated electrical tools are used by maintenance personnel in the factory.	For maintenance purposes, all the electrical tools shall be properly insulated and these insulations shall be checked periodically.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
26	New Finding: PPE is inadequate for maintenance work.	Need to introduce and implement PPE to ensure safety of the personnel during any maintenance.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
27	New Finding: Cable duct/channels are filled with fluffs (Lint/dust). Cable channel/duct terminals are left open for ingress of lint, dust or fluffs.	Cable channels/ducts must be kept neat and clean; these must be sealed properly thus no scope of ingress of fluffs.	1 Month	On 14/01/2024: Not corrected. Still some unsealed cable ducts filled with dust were found. RPO Comments: On 18-Apr-2024 the factory management reported the remediation completion. This item will be verified in the next inspection. On 11/06/2024: Not corrected. No progress has been observed from last follow-up inspection.	15-Sep-2022		In Progress	

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28	New Finding: Manually operated machines (may have chance to be touched by operator/user) have no earth connection.	Manually operated each machine (may have chance to be touched by user/operator) must have earth connection. Cable selection shall be made per CB response and circuit's power demand.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
29	New Finding: Unsafe wiring found in storage area.	In storage area, wiring shall be done by GI pipe/ solid metal duct or concealed wiring system.	1 Month	On 14/01/2024: Not corrected. No progress observed. On 11/06/2024: Corrected.	15-Sep-2022		Corrected	
30	New Finding: Cable connected to busbar/MCCB/ MCB terminal without cable lug.	Each electrical circuit must be terminated at single busbar/ MCB/ MCCB terminal using cable proper sized cable lug (where applicable).	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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31	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	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
32	New Finding: Cable termination at the motor terminal box is directly connected to terminals without proper gland.	All equipment termination must be done with proper termination including cable glands to avoid ingress of moisture and dust entering the terminals.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
33	New Finding: Combustibles are hanging from electrical channel or BBT.	Need to remove all kinds of flammable materials/ combustible materials/ water bottles/ other things from the electrical cable channels/ ducts/ BBTs and provide separate arrangement for it.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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34	New Finding: Power sockets are hung without proper support.	Power socket has to be installed on rigid support/base securely and at minimum 200mm above floor level.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
35	New Finding: Cables are laid on floor and not protected.	Install cable tray or rigid conduit to the entire length of the cable. Provide the necessary support at regular intervals.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
36	New Finding: Tap-off box has openings.	Unwanted openings shall be sealed.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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37	New Finding: Inadequate illumination Infront of panel.	Ensure adequate illumination in front of panel, thus any maintenance can be done comfortably (150 lux shall be maintained).	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
38	New Finding: Motor/ Pumps are not earthed properly.	Ensure earthing connection for all motor/pumps coil and body.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
39	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 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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40	New Finding: Compressor machine mounted on wheel & is not locked.	Compressor machine mounted on wheel must be anchored or the wheels must be locked to prevent from trolling.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
41	New Finding: Indicator lights, Meters and other electrical devices (Ammeter, Voltmeter) are mounted without disconnecting device.	Indicator lights, Meters and other electrical devices (Ammeter, Voltmeter) shall be connected by control device such as rated fuse or MCB.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
42	New Finding: Thermography survey record is not prepared properly (Panel partially covered, ebonite sheet not removed, etc.). Burning signs have been observed at some points.	Thermography survey must be done and recorded at least twice in a year. Hot spots & burning sign must be removed.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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43	New Finding: Transformer Arcing horn/s are missing/ not installed yet.	Transformer arcing horn must be installed with proper alignment.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
44	New Finding: Down, Run & Cross-run conductors are not adequate in size.	Modification work shall be done according to acknowledged standard.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
45	New Finding: Lead acid battery terminals are not covered properly.	Lead acid battery terminals must be covered/capped and rust must be checked and cleaned.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	

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46	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 14/01/2024: Corrected.	15-Sep-2022		Corrected	
47	New Finding: Wiring has done using flexible PVC cable around vertical boiler surface.	Wires close/attached to boiler must be protected from external heat. In unavoidable case use metal type flexible pipe. Again Power cable should keep 0.9m apart from hot area.	1 Month	On 14/01/2024: Corrected.	15-Sep-2022		Corrected	
48	New Finding: No LOTO (Lock-Out-Tag-Out) policy is introduced for safety of the personnel during any kind of maintenance work.	Need to introduce and implement 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 using records.	1 Month		25-Jul-2024			

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49	New Finding: Power Cables are hanging without proper support.	Power cables shall be supported by cable tray (ladder- where needed). Outdoor arrangement must be covered.	1 Month		25-Jul-2024			
50	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		25-Jul-2024			
51	New Finding: Heat shields/blankets missing to protect component and operator from excessive heat.	Heat shields/blankets must be installed to shield hot surface to protect component and operator from excessive heat. Proper guards shall be provided after shielding hot surface. Blankets on exhaust manifold, turbocharger housing and other engine components is not necessary. Suggested to consult with the generator supplier/service provider/expert before doing the job.	1 Month		25-Jul-2024			