

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (8TH)

Factory Name	Safaa Sweaters Ltd				Note:
Address	Begumpur, Bokran, Monipur, Bhawl Gore				
FACTORY ID	12362	ELECTRICAL SAFETY INSPECTION DATES			
Initial Inspection Date	14-Oct-2015	Date of 5 th Follow Up	04-Jan-2018		Other Factory: ----- ----- ----- ----- ----- -----
Report Received Date	14-Nov-2015	Date of 6 th Follow Up	24-Jul-2018		
Date of 1 st Follow Up	24-May-2016	Date of 7 th Follow Up	28-Jan-2019		
Date of 2 nd Follow Up	19-Jul-2016	Date of 8 th Follow Up	20-Nov-2019		
Date of 3 rd Follow Up	21-Dec-2016				
Date of 4 th Follow Up	15-May-2017				
Inspected by		Shafi Md. Imran			

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1	Electric safety training program is not conducted.	Electrical safety training and awareness program for the electrical personnel and staff must be initiated and recorded .	2 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
2	Transformer Oil Test report is unavailable.	Check the transformer oil condition by performing oil test, this must be done twice a year and recorded.	5 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	

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3	Electrical Single Line Diagram (SLD) is unavailable.	Have a by qualified engineer create an as-built electrical SLD mentioning all the required information, and get it reviewed & approved by Accord.	8 Weeks	On 24/05/2016: Not Corrected. New committed timeline given till 15/07/2016. On 19/07/2016: Not corrected. On 21/12/2016: Corrected.	15-Jul-2016	Corrected	Corrected	
4	Instruction for CPR (Cardiopulmonary Resuscitation) or Electrical shock restoration is not present. (Typical)	Hang this first aid and CPR instructions near all electrical equipment (LT panel, MDB, FDB, DB, SDB) on a visible location.	2 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
5	Transformer Silica gel is discoloured.	Replace silica gel by a new one; or dry it under sun and reuse it, if color regains. Breather oil cup must be filled with transformer oil to the required level as instructed by the manufacturer.	2 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	

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6	No oil level indication in conservator tank.	Conservator tank must have oil level indication. Consult the manufacturer for rectification.	3 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
7	Transformer is guarded by wire mesh fencing.	Construct a wall up to the ceiling on required side with enough illumination (min. 150 lux), keeping the provision of ventilation and appropriate door.	8 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
8	Cables entering/exiting COS without cable glands.	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 (of non-combustible material) if any additional gap remains after installing cable glands to make the panel dust and vermin proof.	1 Week	On 24/05/2016: Not Corrected. New committed timeline given till 30/06/2016. On 19/07/2016: Corrected.	30-Jun-2016	Corrected	Corrected	

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9	Hot spots detected at MCB or it's terminal.	Identify the cause of hot spots and take action accordingly. Arrange periodic inspection & thermal scan to identify the overloading, loose connection, unbalanced load which may cause the excessive heat-rise.	1 Week	On 24/05/2016: Not Corrected. New committed timeline given till 30/06/2016. On 19/07/2016: Not corrected. On 21/12/2016: Corrected.	30-Jun-2016	Corrected	Corrected	
10	Phase barrier/separator s between different phases are not installed or locally manufactured phase separators used. (Typical)	Phase barriers between different phases must be installed to avoid arc flashing. Standard separators provided by the MCCB manufacturer must be used.	1 Week	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
11	Cables/wires passing through ceiling not protected and remaining gaps around the cable/wiring not sealed.	Cables passing through permanent walls must be protected in covered cable tray/ steel pipe /PVC pipes and supported near the panel entry; the remaining gaps after the passage of conduits must be sealed with fire resistance materials.	4 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	

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12	Cable tray temporarily covered by metallic sheet.	Remove and reinstall the metallic sheet with screw on the frame to avoid mechanical damage.	2 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
13	Cable entering building through wall are not properly supported.	Cables/wirings passing through permanent wall must be protected installing pipes and remaining gaps must be sealed with fire resistant materials. Cable tray/raceway shall be installed for the support of the cable throughout its length.	3 Weeks	On 24/05/2016: Corrected.	28-Feb-2016	Corrected	Corrected	
14	LT cables laid on the floor without support and protection.	Cable tray/raceway with cover should be installed for the support of the cable throughout its length.	3 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	

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15	Flexible PVC conduit wiring not supported.	Flexible PVC conduit wiring laid on the floor should be supported and arranged on cable tray and risers.	2 Weeks	On 24/05/2016: Not Corrected. New committed timeline given till 30/06/2016. On 19/07/2016: Not corrected. On 21/12/2016: Not Corrected. On 15/05/2017: Corrected	30-Jun-2016	Corrected	Corrected	
16	Cables are not arranged on the cable tray. (Typical)	Cable must be drawn swiftly, arranged and firmly latched at regular interval (600mm) on the cable tray/raceway.	3 Weeks	On 24/05/2016: Not Corrected. New committed timeline given till 30/06/2016. On 19/07/2016: Corrected.	30-Jun-2016	Corrected	Corrected	
17	Cables laid across passage on floor through flexible PVC conduit.	Use steel pipe (instead of flexible pipes), clamped with saddle on floor, to ensure the mechanical protection of cable/wire insulation. Remove and reinstall the mechanical device to its respective supporting frame of boiler.	2 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	

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18	Compressor input cables laid on floor without protection.	Use steel pipe/cable tray 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.	3 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
19	Large exhaust fans in production floors are directly controlled by the MCB. (Typical)	Large exhaust fans must be connected through control device such that it will not restart automatically when power is restored.	4 Weeks	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	
20	Open earth loop measured.	Check for loose earthing-connection. Reconnect wire and check the continuity of earthing wire (if the value is within required level).	1 Week	On 24/05/2016: Corrected.	24-May-2016	Corrected	Corrected	

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21	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	1 Month	On 13/06/2016: Timeline extended from 24/06/2016 to 15/07/2016. On 19/07/2016: Corrected.	15-Jul-2016	Corrected	Corrected	
22	New Finding: Transformer neutral earthing is inadequate.	Resize earth lead cable/ECC for Transformer Neutral. Usually ECC should be equal to the half of the respective phase cable.	1 Month	On 13/06/2016: Timeline extended from 24/06/2016 to 15/07/2016. On 19/07/2016: Corrected.	15-Jul-2016	Corrected	Corrected	
23	New Finding: Cable trenches are filled with fluffs (Lint/dust).	Clean all the cable trenches/channels/ducts; then cover them (you may use checkered/ perforated plate at the bottom). And after each maintenance, keep record.	1 Month	On 13/06/2016: Timeline extended from 24/06/2016 to 15/07/2016. On 19/07/2016: Not corrected. On 21/12/2016: Not Corrected. On 15/05/2017: Corrected	15-Jul-2016	Corrected	Corrected	

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24	New Finding: Cables terminated at electrical bus bar/MCCB without cable lugs.	Terminate all the power/earth/neutral cable with proper sized cable lug	1 Month	On 13/06/2016: Timeline extended from 24/06/2016 to 15/07/2016. On 19/07/2016: Corrected.	15-Jul-2016	Corrected	Corrected	
25	New Finding: Cable tray overloaded with excessive cables has no cover on top of it.	Replace cable tray by wider one; or use additional cable tray to distribute cables thus 20-25% tray area are kept free. Cover the cable tray to keep it free from lint & dust.	2 Months	On 19/07/2016: Not corrected. On 21/12/2016: Not Corrected. On 15/05/2017: Corrected	15-Jul-2016	Corrected	Corrected	
26	New Finding: Earth pits are not identifiable.	Identify each earth pit and mark it for periodic maintenance purpose	1 Month	On 13/06/2016: Timeline extended from 24/06/2016 to 15/07/2016. On 19/07/2016: Corrected.	15-Jul-2016	Corrected	Corrected	

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27	New Finding: Cables are laid on floor without any support.	Provide cable tray inside cable trench and cover it by checkered plate.	1 Month	On 21/12/2016: Corrected.	19-Aug-2016	Corrected	Corrected	
28	New Finding: Battery terminals are left open.	Use insulated rubber cap to cover all the battery terminals	1 Month	On 21/12/2016: Corrected.	19-Aug-2016	Corrected	Corrected	
29	New Finding: Cables are hanging without proper support.	Use cable tray/ladder to support cables at any where to keep cable out of tension.	1 Month	On 21/12/2016: Not Corrected. On 15/05/2017: Corrected	19-Aug-2016	Corrected	Corrected	

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30	New Finding: Field information has 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	On 28/01/2019: Newly installed BBT system is not included in SLD. CKT identification shall have sufficient details to distinguish from others. On 20/11/2019: Not Corrected. SLD is not adequately informative (load in each circuit, identification etc.)	25-Aug-2018		In Progress	
31	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 28/01/2019: Corrected	25-Aug-2018	Corrected	Corrected	
32	New Finding: Cable channel/ducts are not connected with earth.	Cable channel/ducts shall be connected to earth (4 mm2 earth cable will do better)	1 Month	On 28/01/2019: Corrected	25-Aug-2018	Corrected	Corrected	

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33	New Finding: Electrical Distribution panel is adjacent to water source.	Electrical distribution board/panels must not be installed within 2.5meter of any water source.	1 Month	On 28/01/2019: Corrected	25-Aug-2018	Corrected	Corrected	
34	New Finding: Earth lead cable/Earth Continuity Conductor size is inadequate/under size.	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 28/01/2019: Corrected	25-Aug-2018	Corrected	Corrected	
35	New Finding: Insulation resistance test of electrical power cables is not performed	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 20/11/2019: Not Corrected. Not all cables are included in report.	28-Feb-2019		In Progress	