

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (11TH)

Factory Name	A. K. M. KNIT WEAR LTD.				Note:
Address	14 No. Genda, Karnopara, Ulail, Savar				
FACTORY ID	9178	ELECTRICAL SAFETY INSPECTION DATES			
Initial Inspection Date	24/03/2014	Date of 5 th Follow Up	16/11/2016	Date of 11 th Follow Up	06/02/2019
Report Received Date	02/08/2014	Date of 6 th Follow Up	24/01/2017	Date of 12 th Follow Up	
Date of 1 st Follow Up	13/02/2015	Date of 7 th Follow Up	23/04/2017	Date of 13 th Follow Up	
Date of 2 nd Follow Up	17/01/2016	Date of 8 th Follow Up	23/08/2017	Date of 14 th Follow Up	
Date of 3 rd Follow Up	09/05/2016	Date of 9 th Follow Up	31/01/2018	Date of 15 th Follow Up	
Date of 4 th Follow Up	28/07/2016	Date of 10 th Follow Up	27/06/2018	Date of 16 th Follow Up	
Inspected by		Mehedi Hasan			

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1	Cables not supported (and not protected).	Cables used in factory must be supported in trays or ladders throughout its whole length. Provide cover of metal sheet to the tray to prevent any physical damage.	Within 1 month	Already verified on previous follow up inspection.	'31/03/2015	Cables have already been made supported.	Corrected	
2	Cables partially supported in tray and raceways (cables are not placed inside tray in few sections).	Cables supported in tray must be securely laid in the tray and tied with using cable tie at a regular interval. Provide cover of metal sheet to the tray to prevent any physical damage.	3 month	Already verified on previous follow up inspection.	'02/09/2014	Cables are fully supported.	Corrected	

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3	Panel not readily accessible	Existing panel installed above readily reachable heights. Top end of the panel may be at 2 meter from the floor level.	3 months	On 13/02/2015 Corrected at 1st follow up. On 09/05/2016 This issue is not corrected, because there are still some MCCB panels which are inaccessible. On 28/07/2016 Corrected	'02/09/2014	3 step stairs install in front of every Panel all panels are in accessible	Corrected	
4	Gland holes in cable base plates left open.	Compression glands may be used to fix existing cables to the base plates or cable gland may be used according to the respective cable.	Within 1 month	Already verified on previous follow up inspection.	'02/09/2014	Gap has been closed between cable and glands.	Corrected	
5	Openings in the panel top cover plate.	Make circular hole at the base plate/top plate of panels and 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.	3 month	Already verified on previous follow up inspection.	'02/09/2014	Upper cover of panel is enclosed	Corrected	

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6	Panel base plates removed to allow cable entry.	Make circular hole at the base plate/top plate of panels and 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.	Within 1 month	On 13/02/2015 Corrected at 1st follow up. On 09/05/2016 This issue is not corrected, because there are still some panels which have no base plate. On 28/07/2016 Corrected	'02/09/2014	all panels are covered and vermin proof. (Done)	Corrected	
7	Wire terminating to MCBs inside panel are looped	MCB input connection loop may be established by standard plug-in bus bar or separate cable may be used for each load. Phase separators must be installed between different MCBs grouped by phase it is connected	3 months	Already verified on previous follow up inspection.	'02/09/2014	Cable of MCB are not looped inside the panel	Corrected	
8	Multiple wires installed in single lug/terminal.	Individual circuit breaker must be used for protecting each circuit. If the cables are from same circuit, a bigger size cable may be used.	Within 1 month	Already verified on previous follow up inspection.	'02/09/2014	Single cables entering into a single connector of MCCB.	Corrected	

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9	Panel doors not connected with earth bond.	Existing panel door bonding by PVC insulated wires may be replaced with bonding-braid as most of them (installed wires) are loosen due to repeated opening and closing of door.	Within 1 month	Already verified on previous follow up inspection.	'02/09/2014	Door of panel board adding earth bonding	Corrected	
10	Cables are laid on concrete floor.	Cables on floor may be supported into covered cable trays installed at safe locations to prevent any physical damages.	3 months	Already verified on previous follow up inspection.	'02/09/2014	Cables from panel are not laid on floor. Used cable tray for supported.	Corrected	
11	Combustible materials are kept near to power cables.	Combustible materials near power cables must be removed.	Within 1 month	Already verified on previous follow up inspection.	'02/09/2014	Combustible cloths clear from near the power cable	Corrected	

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12	Flexible PVC conduit wiring not supported.	Flexible PVC conduit wiring must be additionally supported on cable tray and risers.	3 months	Already verified on previous follow up inspection.	'02/09/2014	Flexible PVC cable drawn with supported by cable tray.	Corrected	
13	Cables joint with tape inside the panel	PVC connector and PIB tape wound around the joint must be provided for every cable-joint.	3 months	Already verified on previous follow up inspection.	'02/09/2014	No electrical cable here.	Corrected	
14	Cables supported on trays or/and raceways are not securely fixed.	Cables supported in cable trays must be firmly tied to the tray using cable-tie at regular intervals. Provide cover made of metal sheet onto the tray.	Within 1 month	Already verified on previous follow up inspection.	'02/09/2014	Wires not exposed while cable transiting in cable tray	Corrected	

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15	Main cable electrical room to other building is partially supported in trays and/or raceways.	Cables on trays / raceways / risers must be supported throughout its length. Cable accessories including junctions, Tee, drops and risers must be installed to support cables throughout length.	Within 1 month	Already verified on previous follow up inspection.	'02/09/2014	Flexible PVC cable drawn from roof with supported cable tray.	Corrected	
16	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 and review it by accord.	2 months	On 17/01/2016 Drawing is available but inadequate information. New committed timeline is given till 29-02-2016. On 09/05/2016 This issue is still not corrected yet. The factory is behind schedule. On 28/07/2016 Not corrected SLD need few modifications. On 16/11/2016	'29/02/2016	SLD is reviewed by ACCORD. (Done)	Corrected	
17	New Finding: Thermal inspection record is unavailable.	Thermal inspection is needed to be conducted and recorded bi-annually. Record/Ask for the calibration certificate of the scanner.	1 month	On 17/01/2016 This issue was verified in 2nd follow-up inspection. On 09/05/2016 This issue is not corrected. New committed timeline has given till 10-06-2016 On 28/07/2016 Corrected	'10/06/2016	Done	Corrected	

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18	New Finding: Insulation resistance test of electrical equipment 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)	1 month	Already verified on previous follow up inspection.	'13/03/2016	The test has been done and the report does cover all panels.	Corrected	
19	New Finding: Earth Pit resistance record is unavailable	Record earth pit resistance for all the earth pit and do once in a year	1 month	Already verified on previous follow up inspection.	'13/03/2015	Earth pit resistance for all earth pit has been recorded.	Corrected	
20	New Finding: Lightning Protection System(LPS) has not installed yet	Design and Install LPS for your factory by following BNBC/NFPA.	2 Months	On 09/05/2016 This issue is not corrected yet but they have drawing and installation pending. New committed timeline has given till 10-06-2016 On 28/07/2016 Not corrected. On 16/11/2016: Not corrected. On 24/01/2017 Not Corrected. On 23/04/2017:	'10/06/2016	Done	Corrected	


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21	New Finding: Light in store room / storage areas is uncovered.	Lights in store room / storage areas shall be covered	2 Months	Already verified on previous follow up inspection.	'27/03/2016	Cover system lights have been installed in the storage areas. (Corrected)	Corrected	
22	New Finding: Higher rated circuit breakers with lower rated electrical cable.	Consult with a qualified Electrical Engineer and ensure electrical cables are sized according to capacity of circuit breakers.	1 Month	On 28/07/2016 Not corrected. Factory committed timeline: 30/08/16. On 16/11/2016: Corrected.	'30/08/2016		Corrected	
23	New Finding: Cable tranches are filled with fluffs (dust and water)	Clean all the cable tranches; 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 28/07/2016 Corrected	'10/06/2016	Done	Corrected	

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24	New Finding: Inadequate working clearance around the generator/s	Working clearance around each generator should be 1.07m. If multiple generators are installed then the gap between two generators must be equal to the width of bigger generator.	2 Months	On 28/07/2016 Corrected	'10/07/2016	Done	Corrected	
25	New Finding: Wirings in flexible PVC conduit in boiler room.	Wires close/attached to boiler and generator must be protected from external heat and moisture by metallic heat resistant conduits. If possible, keep sufficient clearance between heat sources and cable/wires.	1 Month	On 28/07/2016 Corrected	'10/06/2016	All PVC flexible pipe replaced by metal flexible pipe. (Done)	Corrected	
26	New Finding: Cable duct/channels are damaged and it has no cover.	Clean all the cable channels/ducts; then cover them (you may use checkered/perforated plate at the bottom) and install end cover with proper support. After each maintenance, keep record.	2 Months	On 28/07/2016 Corrected	'10/07/2016	Cable duct repaired and cleaned. (Done)	Corrected	

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27	New Finding: Lint and dust deposited on transformer top	Keep transformer top always neat and clean.	2 Weeks	On 28/07/2016 Corrected	'25/05/2016	Transformer top is now neat and clean. (Done)	Corrected	
28	New Finding: Electric safety training program is not initiated.	Electrical safety training and awareness program for the electrical personal and workers must be initiated and recorded	2 Weeks	On 28/07/2016 Not corrected. Factory shall conduct the safety training again as minor influence observed among the electrician. Factory committed timeline: 30/08/16. On 16/11/2016: Corrected.	'30/08/2016		Corrected	
29	New Finding: There is improper programmed schedule for periodical inspection & testing of electrical equipment available on site which reflects inadequate for	Develop an electrical maintenance program that includes inspections and testing of the electrical systems (preventive, proactive and breakdown maintenance)	1 Month	On 28/07/2016 Corrected	'10/06/2016	Already yearly maintenance schedule is prepared and being followed accordingly. (Done)	Corrected	

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30	New Finding: Oil leakage has been observed from transformer.	Stop oil leakage from transformer and keep clean top of transformer.	1 Month	On 16/11/2016: Corrected.	'10/09/2016	Oil leakage issue is resolved. (Done)	Corrected	
31	New Finding: Cables are hanging without support. Cable terminals may be in tension.	Use cable tray/ladder to support cables at any where to keep cable out of tension.	2 Months	On 16/11/2016: Corrected.	'10/10/2016	All the cables are now supported by the cable tray. (Done)	Corrected	
32	New Finding: Horizontal bus bar are kept uninsulated between terminals on circuit breakers.	Power bus bar must be installed with adequate clearance (not less than 2.5 inch for LV) between two bars otherwise insulation must be provided.	1 Month	On 23/08/2017: Corrected.	'31/05/2017	Done	Corrected	

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33	New Finding: Hot spots have been observed at some points.	Thermography survey must be done at least twice in a year. Hot spots must be removed as soon as possible.	2 Weeks	On 31/01/2018: Corrected. No such issue was found during inspection.	'10/09/2017	Done	Corrected	
34	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.	2 Months	On 06/02/2019: Not Corrected	'15/09/2018	We have identified all electrical power cables by using cable marker, tag & colored heat shrink.(Corrected)	In Progress	
35	New Finding: Panel/Distribution boxes are not readily accessible	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.	2 Months		25/04/2019			

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36	New Finding: Multiple cables (came from different electrical consumers) terminated at MCB/MCCB terminals/ Busbar.	Each electrical circuit must be terminated at single MCB/MCCB terminals.	1 Month		25/03/2019			
37	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		25/03/2019			
38	New Finding: Non-metallic sheathed (Types NM, NMC, and NMS) cables are run and exposed over the suspended ceiling.	Use the metallic sheathed cable or provide enclosed cable raceway to run the cable over the suspended ceiling. Suspended ceiling shall not be used for the cable support.	1 Month		25/03/2019			

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39	New Finding: 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.	1 Month		25/03/2019			