

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (14TH)

Factory Name	MASCOTEX LIMITED					Note:
Address	Shataish Road, 31/32, Khartail, Tongi					
FACTORY ID	9505	ELECTRICAL SAFETY INSPECTION DATES				Other Factory: ----- ----- ----- ----- ----- ----- -----
Initial Inspection Date	07-Apr-2014	Date of 5 th Follow Up	29-Sep-2016	Date of 11 th Follow Up	21-Dec-2017	
Report Received Date	15-Jun-2014	Date of 6 th Follow Up	06-Dec-2016	Date of 12 th Follow Up	07-May-2018	
Date of 1 st Follow Up	03-Sep-2014	Date of 7 th Follow Up	16-Feb-2017	Date of 13 th Follow Up	14-Nov-2018	
Date of 2 nd Follow Up	09-Dec-2015	Date of 8 th Follow Up	18-May-2017	Date of 14 th Follow Up	25-Apr-2019	
Date of 3 rd Follow Up	20-Mar-2016	Date of 9 th Follow Up	17-Aug-2017	Date of 15 th Follow Up		
Date of 4 th Follow Up	30-Jun-2016	Date of 10 th Follow Up	21-Nov-2017	Date of 16 th Follow Up		
Inspected by	Md Khitabul Islam					

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	HT cable terminated to 11 KV feeder made bend near top of the pole as a result it's rain sheds become misaligned	Rearrange the HT cable to remove bend. The HT cable termination may be lowered to a position that it will remain straight throughout it's whole length and it's accessories should be aligned as per design.	Within 3 months	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	30-Aug-2014	Done	Corrected	
2	Cables entering or leaving distribution panel are not supported on tray/riser.	Install cable tray or riser to support the cables entering and leaving the changeover switch to reduce cable strain on cable termination point.	Within 1 month	On 09/12/2015: Corrected On 20/03/2016: Corrected On 30/06/2016: Corrected.	03-Nov-2014	Done	Corrected	

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3	Cable trench not covered and cables not arranged properly in it.	Shut down the power and clean the cable trench. Arrange cables inside the trench properly. Provide metallic cover (checkered plate) on it to prevent the damage of cable insulation due to falling objects and stepping of occupants. Cable trench should be fully covered and arranged cables properly inside it.	Within 1 month	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	15-Jul-2014	Done	Corrected	
4	HT and cable routed in a same cable trench.	HT and LT cables should be routed through separate cable trench (may be separate tray into same trench) and provide metallic cover (checkered Plate) on it to prevent the damage of cable insulation due to falling objects and stepping of occupants. Cable trench should be fully covered and arranged cables properly inside it.	Within 3 months	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	30-Aug-2014	Done	Corrected	
5	Riser not installed for HT cable support on the primary side of transformer.	Install a vertical cable riser to support the HT cable as well as to reduce cable strain on the HT bushings of transformer.	Within 1 month	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	25-Jul-2014	Done	Corrected	

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6	Transformer room found congested; necessary working clearance not present around the transformer	Transformer room may be rearranged or some of the panels may be relocated. Construct a fire rated separate dedicated room for the transformer only Providing necessary clearance around it. Assign a qualified engineer to design a required transformer room according to BNBC 2006 Section 2.6.3	Within 3 months	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	30-Aug-2014	Done	Corrected	
7	Live electrical device (capacitor) mounted on wall not encased. Cables encased in flexible pipes not supported	All kind of live electrical devices should be encased in metal casing made of 20 SWG thickness metal steel sheets. Surface and exposed wiring should be encased in rigid PVC pipe throughout it's length; run horizontally and vertically never at an angle and support them at regular intervals by using saddle clamp.	Within 1 month	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	25-Jul-2014	Done	Corrected	
8	Cables encased in flexible PVC pipes laid on concrete floor.	The motors input cables laid on floor should be encased in steel pipe clamed at suitable location for protecting it from physical damage due to falling objects and stepping of occupants.	Within 1 month	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	15-Jul-2014	Done	Corrected	

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9	Cables entering or leaving distribution panel not supported on tray/riser.	Encased the cables in rigid PVC pipes; run them vertically and horizontally never at an angle and support them at regular intervals by saddle clamp.	Within 3 months	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	30-Aug-2014	Done	Corrected	
10	Cables passing through wall not protected and remaining gaps after passage of cables 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 1 month	On 03/09/2014: Corrected. On 20/03/2016: Corrected On 30/06/2016: Corrected.	20-Jun-2014	Done	Corrected	
11	Inadequate lightning Protection System (LPS) in the building.	Need to install LPS properly and make arrangement. Need to have number of vertical conductors and horizontal conductors.	Within 3 months	On 30/06/2016: Not Corrected. New timeline given till 30-4-2016 On 29/09/2016: Not Corrected On 06/12/2016: Not corrected. On 16/02/2017: Corrected.	30-Apr-2016	Done	Corrected	

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12	2 earthing wires for a generator do not come from 2 distinct earth pit.	Generator earthing shall be 2 point earthing. These two points shall be brought from 2 distinct earth pit	2 week	On 09/12/2015: Corrected On 20/03/2016: Corrected. On 30/06/2016: Corrected.	03-Nov-2014	Done	Corrected	
13	New Finding: Hot spots at terminations inside panel.	Find the cause of excessive heat-rise which may be the overloading, loose connection, unbalanced load and others and take action immediately. Thermo graphic scanning for the entire electrical system must be performed on a bi-annual basis and recorded.	One week	On 30/06/2016: Not Corrected. Hot spot observed during inspection which shall be removed immediately. New timeline given till 10-04-2016 to close the issue as recommended. On 29/09/2016: Corrected	15-Jul-2016	Done	Corrected	
14	New Finding: Power cables are bent excessively.	Avoid power cable bending in electrical system; in unavoidable case bend cables without any stress but not less than 135 degree.	2 Months	On 30/06/2016: Not Corrected. On 29/09/2016: Not Corrected On 06/12/2016: Corrected.	30-May-2016	Done	Corrected	

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15	New Finding: Light in store room / storage areas is uncovered.	Lights in store room / storage areas shall be covered	1 Month	On 30/06/2016: Corrected.	30-Apr-2016	Done	Corrected	
16	New Finding: Electrical boiler covered by combustible material and wiring to boiler is not properly supported.	Provide non combustible material to protect the boiler and adequate support for wiring.	1 Month	On 30/06/2016: Not Corrected. On 29/09/2016: Corrected. Boiler has been shifted to another location.	30-Apr-2016	Done	Corrected	
17	New Finding: Panel/Distribution boxes are inaccessible.	Take necessary initiative thus every panel/distribution board can be easily accessible	2 Months	On 30/06/2016: Corrected.	30-May-2016	Done	Corrected	

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18	New Finding: Personal Protective Equipment (PPE) for Electrical Work is not available.	Personal Protective Equipment (PPE) must be arranged by the factory management team for the safety of their employee and worker	1 Month	On 06/12/2016: Corrected.	15-Nov-2016	Done	Corrected	
19	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 06/12/2016: Corrected.	15-Nov-2016	Done	Corrected	
20	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 07/05/2018: Corrected.	30-Jan-2018	Done	Corrected	

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21	<p>New Finding: 1. LPS does not cover the whole roof of the building (the portion after parapet wall is not protected.) 2. Mesh width is more than 50ft. 3. Air terminals are installed at more than 2 ft.</p>	<p>Need to install LPS according to the standard. (all dimensions, drawings, materials shall be as-built and according to the standards.)</p>	1 Month	<p>On 07/05/2018: Not Corrected. LPS drawing is not as built; main conductor missing beside water tank. On 14/11/2018: Corrected</p>	30-Jan-2018	Done	Corrected	
22	<p>New Finding: Outdoor Cable trays are not covered to protect from weather effect.</p>	<p>Outdoor cable tray/ladders shall be covered properly to avoid seasonal effect on cables and its longevity.</p>	1 Month	<p>On 07/05/2018: Corrected.</p>	30-Jan-2018	Done	Corrected	
23	<p>New Finding: Cables are hanging without support. Cable terminals may be in tension.</p>	<p>Cable tray/ladder must be used to support cables at any where to keep cable out of tension.</p>	1 Month	<p>On 07/05/2018: Not Corrected. On 14/11/2018: Not Corrected</p>	30-Jan-2018	Done	Corrected	

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24	New Finding: MCCBs are not adjusted per load demand.	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 07/05/2018: Not Corrected. On 14/11/2018: MCCBs are not adjusted per load. Two main circuit breakers of LT -1 Panel are also found higher size. On 25-Apr-2019: Corrected.	30-Jan-2018	Done	Corrected	
25	New Finding: Cumulative breaker size is greater than cable/comb bar ampacity.	For connecting multiple MCB use separate comb bar within cable ampacity.	1 Month	On 14/11/2018: Corrected	20-May-2018	Done	Corrected	
26	New Finding: Distribution panel/board is installed without proper grout.	Distribution panel/board must be installed with proper grout.	1 Month	On 14/11/2018: Corrected	20-May-2018	Done	Corrected	

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27	New Finding: Inadequate working space around generator for performing maintenance work.	Minimum working space (1.07m) around the Generator (and related electrical installations) must be ensured.	1 Month	On 14/11/2018: Not Corrected. On 25-Apr-2019: Corrected.	20-May-2018	Done	Corrected	
28	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	On 14/11/2018: All conductor need to be identified and the identification shall include sufficient detail to allow each circuit to be distinguished from all others. On 25-Apr-2019: Corrected.	20-May-2018	Done	Corrected	
29	New Finding: Changeover switches/ mechanism do not have interlocking capabilities.	Interlocking capabilities shall have existed among the sources used to feed same busbar or load.	1 Month	On 25-Apr-2019: Corrected. Factory have installed new LT panel with ATS.	20-Dec-2018	Done	Corrected	

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30	<p>New Finding: Cable duct/channels are filled with fluffs (Lint/dust).</p> <p>Cable tray is overloaded with excessive cables; eventually top cover has no effectiveness.</p>	<p>Cable channels/ducts must be kept neat and clean; these must be sealed properly thus no scope of ingress of fluffs.</p> <p>Proper sized cable tray must be installed; a perforated one is better and 20-25% space in cable tray/duct shall be kept free.</p>	1 Month	On 25-Apr-2019: Corrected.	20-Dec-2018	Done	Corrected	