

**ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (9TH)**

<b>Factory Name</b>	<b>STERLING APPARELS LTD</b>				<b>Note:</b>	
<b>Address</b>	Beron, Earpur Union, Ashulia, Savar					
<b>FACTORY ID</b>	<b>9619</b>	<b>ELECTRICAL SAFETY INSPECTION DATES</b>			<b>Other Factory:</b>	
<b>Initial Inspection Date</b>		25/03/2014	08/11/2016	Date of 5 <sup>th</sup> Follow Up		
<b>Report Received Date</b>			12/01/2017	Date of 6 <sup>th</sup> Follow Up		
<b>Date of 1<sup>st</sup> Follow Up</b>		23/04/2015	12/04/2017	Date of 7 <sup>th</sup> Follow Up		
<b>Date of 2<sup>nd</sup> Follow Up</b>		20/01/2016	12/07/2017	Date of 8 <sup>th</sup> Follow Up		
<b>Date of 3<sup>rd</sup> Follow Up</b>		02/05/2016	19/12/2017	Date of 9 <sup>th</sup> Follow Up		
<b>Date of 4<sup>th</sup> Follow Up</b>		26/07/2016		Date of 10 <sup>th</sup> Follow Up		
<b>Inspected by</b>	<b>Abu Zobair</b>					

<b>Item No</b>	<b>Accord Inspection Observation</b>	<b>Accord Action Plan (Recommendation)</b>	<b>Accord Time line (given in report)</b>	<b>Comments from Accord (After Physical Inspection)</b>	<b>Final Timeline (Approved timeline)</b>	<b>Final Action Plan (Factory)</b>	<b>Progress Status (On the date of inspection)</b>	<b>Pictorial Evidence</b>
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 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/09/2015	This work is affiliated with the support of the PIB. We have already applied for the assistance of PIB (pictorial evidence attached)	Corrected	
2	Cables encased in flexible pipes laid on concrete floor.	The cables must be carried and protected through steel pipe to protect it from physical damage due to falling objects and stepping of occupants.	Within 1 month	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	13/08/2015	Already Done, Pictorial evidence attached	Corrected	

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3	Generator exciter batteries placed directly on concrete floor not protected.	Insulate the battery terminals to avoid short circuit and clean the battery vent/plug clean to emit gas during over charging. Generator Battery must be placed on the battery stand made of noncombustible material (steel fabricated, acid proof).	Within 1 month	On 23/04/2015 Corrected on first follow up.	20/09/2014	All Ready Done	Corrected	
4	Insufficient working space around the transformer.	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 6 months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/09/2015	Done	Corrected	
5	Cables laid directly on concrete floor not protected.	Install cable tray with protective cover to route and protect the cables from physical damage due to falling objects and stepping of operational personnel during maintenance.	Within 3 months	On 02/05/2016 Corrected. On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue as recommended.	29/02/2016	Done	Corrected	

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6	Unused openings found at the cable entry and no use of cable gland.	Panel must be sealed with metal plates and then make circular hole into the base plate of panels to be added 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. Provide covers (of noncombustible material) if any additional gap remains after installing cable glands to make the panel dust and vermin proof.	Within 3 months	On 02/05/2016 Still incorrect. The factory is behind schedule. On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue. On 26/07/2016 Corrected.	29/02/2016	Already Corrected: We have sealed the DB board to remove unused openings. Pictorial evidence attached.	Corrected	
7	Hot spot detected at termination point of MCCB.	Inspection is needed to identify the reason of high temperature in the cable terminal or in the cable. Use good quality lugs and punches it by properly. Tighten the screw of mounted on the MCCB pole tightly. In case of unbalance load and overloading; calculate the connected loads then distribute the loads uniformly among three phases, select the cable according to the connected load respectively.	Within 1 month	On 02/05/2016: Still not corrected. The factory is behind schedule. On 20/01/2016: Hot spot observed during inspection. New timeline given till 15-Feb/16. On 26/07/2016: Not Corrected. On 08/11/2016: Not corrected. On 12/01/2017 Corrected.	15/02/2016	Done	Corrected	
8	Barrier/separators not installed between different phases of MCCB.	Install separators between different phases of MCCB to avert flashover. Standard separators provided by the MCCB manufacturer must be used.	Within 1 month	On 23/04/2015 Corrected on first follow up.	20/08/2014	All Ready Done	Corrected	

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9	Cables passing through permanent wall not protected and the unused openings 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.	Within 3 months	On 02/05/2016 Corrected. On 20/1/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Done	Corrected	
10	Cables encased in flexible pipes not supported.	Surface and exposed wiring should be encased in rigid PVC/steel pipe throughout it's length; run horizontally and vertically never at an angle and support them at regular intervals by using saddle clamp.	Within 3 months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	Already Done, Pictorial evidence attached	Corrected	
11	Uncovered wooden cable duct filled with dust and lint deposit.	The wooden cable duct should be replaced by metallic cable channel with protective covers. Keep 30% clearance in the cable channel for further extension and better heat dissipation. Put tags on the cable for easy identification and maintenance. Establish a routine cleaning program to keep the cable channels neat and clean.	Within 6 months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	13/08/2015	Already done	Corrected	

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12	Unused openings found at the cable entry and exit and no use of cable gland.	Panel must be sealed with metal plates and then make circular hole into the base plate of panels to be added 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. Provide covers (of noncombustible material) if any additional gap remains after installing cable glands to make the panel dust and vermin proof.	Within 3 months	On 02/05/2016 Corrected  On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Work in progress	Corrected	
13	Splicing cable joints found in cable duct with improper tapping.	Use PVC or porcelain cable connector for joining cables and PIB tape wound around it.	Within 1 month	On 02/05/2016 Corrected.  On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Work in progress	Corrected	
14	Excessive dust and lint deposit in cable duct.	The wooden cable duct should be replaced by metallic cable channel with protective covers. Keep 30% clearance in the cable channel for further extension and better heat dissipation. Put tags on the cable for easy identification and maintenance. Establish a routine cleaning program to keep the cable channels neat and clean.	Within 1 month	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	Already done	Corrected	

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15	New Finding: Wiring has done using flexible PVC cable around vertical boiler surface.	Wires lose/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 02/05/2016 Corrected.  On 20/05/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	already done	Corrected	
16	New Finding: Cable laid on gas line.	Cables should be place 0.9m apart from gas line.	1 Month	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	
17	New Finding: Multiple cables terminated at MCCB terminals.	Terminate each power cable at single terminal and use proper sized cable lug. Multiple cables termination is allowed if all are soldered properly and powering to a single circuit.	2 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	

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18	New Finding: Cables terminated at MCCB without cable lugs	Terminate all the power/earth/neutral cable with proper sized cable lug	2 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	
19	New Finding: Steam lines close to electrical cables	Steam lines must has to be insulated with appropriate materials. Cables running along with the steam line must be separated at safe distance of 0.9m.	2 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	
20	New Finding: Switches mounted at inaccessible height.	Take necessary initiative thus every switch board can be easily accessible. Factory may also consider re-locating typically inaccessible switch board/panels.	3 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	

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21	New Finding: MCB is installed without any enclosure	Need to provide electrical graded enclosure. Factory also consider relocating this.	2 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	
22	New Finding: Ballast mounted on wooden cable duct	Remove ballast from cable duct and fix this inside proper enclosure.	3 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/08/2015	already done	Corrected	
23	New Finding: Factory's service cable has excessive sagging/inadequate support.	Excessive sagging should be fixed by adequate support to avoid any arcing/flashing at the Grid terminal/factory terminal	1 Month	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/09/2015	Done	Corrected	



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24	New Finding: Store's light is uncovered.	Light and wire are needed to be covered.	2 Months	On 02/05/2016 Corrected.  On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Done	Corrected	
25	New Finding: Power cable is buried in the concrete floor	Construct a cable trench for distributing power cables. Then cover it by checkered plate.	3 Months	On 02/05/2016 Corrected.  On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Done	Corrected	
26	New Finding: Combustible materials stored inside of the generator room..	Generator room should not be used for any kind of storage area of combustible materials.	1 Month	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	30/04/2015	already done	Corrected	

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27	New Finding: Power cable is covered by sand in the cable trench	If it is designed keeping Power cable under sand, its OK; otherwise remove sand from cable trench avoiding physical damage of cable	2 Months	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.	20/09/2015	Done	Corrected	
28	New Finding: Combustible materials used as cover for SDB	Combustible must not be stored near DB or used as cover.	1 Month	On 20/01/2016 This issue is corrected in 2nd follow-up inspection.  Panel has been removed.	28/10/2015	Done	Corrected	
29	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.	2 Months	On 02/05/2016: Still not corrected. The factory is behind schedule. On 20/01/2016: Not corrected New timeline given till 29-Feb/16. On 26/07/2016: Not Corrected. SLD is not matching with current setup and there is no cable identification. On 08/11/2016: Corrected.	29/02/2016	Done	Corrected	

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30	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.	3 Months	On 02/05/2016: Still not corrected. On 20/01/2016: Not corrected On 26/07/2016: Not Corrected. On 08/11/2016: Not corrected. On 12/01/2017 Not Corrected. On 12./4/2017: Not Corrected. On 25/07/2017: Corrected.	29/02/2016	Work in progress: LPS design completed and verbally approved by Accord. We install it as per drawing but some minor fault found by audit team in installation system. We solve it within 10 July 2017.	Corrected	
31	New Finding: Electric safety training program is not initiated/conducted.	Electrical safety training and awareness program for the electrical personal and workers must be initiated, recorded and evaluated.	1 Month	On 20/01/2016: Not corrected New timeline given till 29-Feb/16. On 02/05/2016: Still not corrected. On 26/07/2016: Not Corrected. On 08/11/2016: Corrected.	29/02/2016	Done	Corrected	
32	New Finding: Earth Pit resistance record is unavailable	All farthing 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.	2 Months	On 02/05/2016 Corrected. On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Done	Corrected	

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33	New Finding: Insulation resistance test of cable 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)	2 Months	On 02/05/2016 Corrected.  On 20/01/2016 Not corrected New timeline given till 29-Feb/16 to close this issue.	29/02/2016	Done	Corrected	
34	New Finding: MCCBs are not adjusted accordingly	Adjust all the MCCBs according to cable ampacity (connected load). Avoid using different sized cable at the terminals	2 Months	On 02/05/2016 This issue is not corrected yet. Timeline has extended from 31/03/2016 to 02/06/2016 On 26/07/2016 Corrected.	02/06/2016	Done	Corrected	
35	New Finding: Earth lead cable/Earth Continuity Conductor size is inadequate/under size	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).	3 Months	On 02/05/2016 This issue is not corrected yet. Timeline has extended from 31/04/2016 to 02/06/2016  On 26/07/2016 Corrected.	02/06/2016	Done	Corrected	

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36	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	<p>On 02/05/2016: This issue is not corrected.</p> <p>On 26/07/2016: Not Corrected.</p> <p>On 08/11/2016: Not corrected.</p> <p>On 12/01/2017 Not Corrected.</p> <p>On 12/04/2017: Not Corrected.</p> <p>On 25/07/2017: Not Corrected.</p> <p>On 19/12/2017: Not corrected. Factory is working on this issue.</p>	02/06/2016	Work in progress: Partially done at (Level-1,2 & 3). As we install BBT riser and setup new electrical wiring we must avoid cable bending. New installation will be finished within 31st January 2018.	In Progress	
37	New Finding: Sub station room has inadequate ventilation.	Ensure/Arrange cross ventilation sub station room; You may use fire damper if you have to keep any opening on the corridors/egress path/exit.	1 Month	<p>On 26/07/2016: Not Corrected.</p> <p>Timeline has been extended till 15/09/2016.</p> <p>On 08/11/2016: Not corrected.</p> <p>On 12/01/2017 Not Corrected.</p> <p>On 12/04/2017: Not Corrected.</p> <p>On 25/07/2017: Not Corrected.</p> <p>On 19/12/2017: Corrected.</p>	15/09/2016	Done: Already we have installed new substation with proper ventilation from Oct-2017	Corrected	
38	New Finding: Burning sign is seen at the terminal	Need to check the connected load, Check the thermal issue. But need to replace the burnt cable and lugs immediately.	1 Week	<p>On 26/07/2016: Not corrected.</p> <p>On 08/11/2016: Corrected.</p>	10/06/2016	Done	Corrected	

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39	New Findings: Change Over Switch contacts covered with bearing grease.	Clean excess grease from the contacts. Use of grease may be avoided as it collects (sticks) dusts on the contacts. Otherwise electrically contact grease could be used.	1 Week	On 26/07/2016 Corrected.	10/06/2016	Done	Corrected	
40	New Finding: Flexible pvc pipe inside the panel to cover the cable.	Need to remove the flexible pipe from the panel.	1 Week	On 26/07/2016 Corrected.	10/06/2016	Already Corrected. Pictorial evidence attached	Corrected	
41	New Finding: Battery terminals are left open	Lead acid battery terminals must be covered/capped	1 Month	On 12/01/2017 Corrected.	10/12/2016	Done	Corrected	