

ELECTRICAL SAFETY FOLLOW UP INSPECTION REPORT (12TH)

Factory Name	Bodystretch Bangladesh Ltd					Note:
Address	Tengury Zirani Bazar Holding 80					
FACTORY ID	10277	ELECTRICAL SAFETY INSPECTION DATES				Other Factory:
Initial Inspection Date	07/07/2014	Date of 5 th Follow Up	06/11/2016	Date of 11 th Follow Up	22/07/2018	
Report Received Date	04/09/2019	Date of 6 th Follow Up	10/01/2017	Date of 12 th Follow Up	14/01/2019	
Date of 1 st Follow Up	21/05/2015	Date of 7 th Follow Up	02/04/2017	Date of 13 th Follow Up		
Date of 2 nd Follow Up	29/02/2016	Date of 8 th Follow Up	19/07/2017	Date of 14 th Follow Up		
Date of 3 rd Follow Up	25/04/2016	Date of 9 th Follow Up	19/10/2017	Date of 15 th Follow Up		
Date of 4 th Follow Up	28/08/2016	Date of 10 th Follow Up	11/03/2018	Date of 16 th Follow Up		
Inspected by		Abu Zobair				

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	Panels not securely fixed to the foundation.	Fix the panel base securely to the foundation with appropriate fastening devices. Provide cable support for incoming and outgoing cables.	5 WEEKS	On 21/05/2015: Corrected.	*31/12/2014	Corrected	Corrected	
2	Cables entering to changeover switch are not protected and supported.	Provide cable tray made of non-combustible material preferably metal. Ensure cables are supported and protect throughout its length.	1 Month	On 29/02/2016: This issue is not corrected yet. New committed timeline is given till 15-4-16. On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Not Corrected. On 06/11/2016: Not Corrected. On 10/01/2017: Corrected	*31/05/2016	Corrected	Corrected	

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3	Cables terminating to generator output terminal box are laid on floor with PVC conduit.	Cable terminating at Generator output terminal box must be supported into duct and protected. Install cable duct to protect the generator output cables and provide covers made of non-combustible material preferably metal to protect the cables insulation from any physical damage.	5 WEEKS	On 29/02/2016: Corrected	'30/11/2015	Corrected	Corrected	
4	Generator battery placed on the concrete floor.	Generator Battery bank should be placed inside the steel frame (battery rack).	5 WEEKS	On 21/05/2015: Corrected.	'31/12/2014	Corrected	Corrected	
5	Panel base plates removed to allow cable entry.	Provide cable gland at the cable entry of the panel. Ensure the gland size is same as the cable and if any addition gap remains, seal using non-combustible material preferably steel sheet.	1 Month	On 29/02/2016: This issue is not corrected yet. New committed timeline is given till 15-4-16 to close the issue. On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Not corrected. On 06/11/2016: Not Corrected.	'31/05/2016	Corrected	Corrected	

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6	Panel doors not connected with earth bond.	Provide earth connection for body and doors of metallic distribution boards using green cables preferably braid so that the metallic door remains at zero potential all the time.	3 WEEKS	On 29/02/2016: Corrected	'30/11/2015	Corrected	Corrected	
7	Lint & dust deposits in cable duct and duct not covered (typical).	Remove lint and dust from the cable duct and cover it with non-combustible material; make a periodical cleaning program.	1 Month	On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 29/02/2016: Not corrected yet. New committed timeline is given till 15-4-16 to close the issue. On 28/08/2016: Corrected.	'31/05/2016	Corrected	Corrected	
8	IPS unit placed on wooden frame.	IPS unit should be place on non-combustible frame (steel frame).	5 WEEKS	On 21/05/2015: Corrected.	'31/12/2014	Corrected	Corrected	

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9	The factory does not have electrical Single Line Diagram	Factory must have as-built electrical single line diagram for proper maintenance of their electrical system.	12 WEEKS	On 21/05/2015: Corrected.	'31/12/2014	Corrected	Corrected	
10	New Finding: Power cable is buried in the concrete floor	construct cable trench for distributing power cables then cover it by checkered plate.	1 Month	On 29/02/2016: This issue is not corrected yet. New committed timeline is given till 15-4-16. On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Not Corrected. On 06/11/2016: Not Corrected. On 10/01/2017: Corrected 29/02/2016:	'31/05/2016	Corrected	Corrected	
11	New Finding: Lighting projection system (LPS) is inadequate for the factory.	Redesign/Modify LPS for your factory to increase safety, factory have to submit LPS design to accord before starting.	1 Month	Not corrected. On 25/04/2016: Not Corrected. On 28/08/2016: Not Corrected. On 06/11/2016: Not Corrected. On 10/01/2017: Not yet installed. On 02/04/2017: Not Corrected. On 10/07/2017:	'31/05/2016	Corrected	Corrected	

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12	New Finding: Oversized circuit breakers or circuits 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 29/02/2016: This issue is not corrected yet. New committed timeline is given till 15-4-16. On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Not Corrected. On 06/11/2016: Not Corrected. On 10/01/2017: Corrected. Higher size breaker has been	'31/05/2016	Corrected	Corrected	
13	New Finding: Earth lead cable/earth continuity conductor 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)	1 Month	On 29/02/2016: This issue is not corrected yet. New committed timeline is given till 15-4-16. On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Not Corrected. On 06/11/2016: Not Corrected. On 10/01/2017: Corrected	'31/05/2016	Corrected	Corrected	
14	New Finding: wiring has done using flexible PVC pipe 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 .09m apart from hot area.	1 Month	On 25/04/2016: Not Corrected. New timeline is 31/05/2016. On 29/02/2016: This issue is not corrected yet. New committed timeline is given till 15-4-16. On 28/08/2016: Corrected.	'31/05/2016	Corrected	Corrected	

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15	New Finding: Multiple cables terminated at MCCB terminals/ Bus bar.	Terminate each power cable at single terminal and use proper sized cable lug.	1 Month	On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Corrected.	31/05/2016	Corrected	Corrected	
16	New Finding: Earth Pit resistance record is unavailable and earth pits are not identifiable.	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 and the result shall be kept. Identify each earth pit and mark it for periodic maintenance purpose	1 Month	On 25/04/2016: Not Corrected. New timeline is 31/05/2016. On 28/08/2016: Not corrected. On 06/11/2016: Corrected.	31/05/2016	Corrected	Corrected	
17	New Finding: Insulation resistance test of electrical cables 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	On 25/04/2016: Not Corrected. New timeline to close this issue is 31/05/2016. On 28/08/2016: Not corrected. On 06/11/2016: Corrected.	31/05/2016	Corrected	Corrected	

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18	New Finding: Hot spots at terminations inside panel. Thermo graphic inspection record is unavailable.	Arrange periodic inspection & thermal scan at least twice in a year to identify the overloading, loose connection, unbalanced load which may cause the excessive heat-rise and take action accordingly. However, immediately correct such points.	1 Month	On 25/04/2016: Not Corrected. New timeline is 31/05/2016. On 28/08/2016: Not corrected. On 06/11/2016: Corrected. No hot spot found.	31/05/2016	Corrected	Corrected	
19	New Finding: Large exhaust fans in production floors are directly Controlled by the MCB (typical issue).	Large exhaust fans must be connected through Control device (DOL Starter) such that it will not restart automatically when power is restored.	1 Month	On 28/08/2016: Corrected.	31/05/2016	Corrected	Corrected	
20	New Finding: Battery terminals are left open	Use insulated rubber cap to cover all the battery terminals	1 Month	On 28/08/2016: Corrected.	31/05/2016	Corrected	Corrected	

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21	New Finding: MCB is installed on cable channel without enclosure	MCB should be mounted on fixed enclosure. If distribution boards have not adequate space to install breakers then replace the boards with a new one having wide space.	1 Month	On 28/08/2016: Corrected.	'31/05/2016	Corrected	Corrected	
22	New Finding: Electric safety training program has not initiated/conducted.	Electrical safety training and awareness program for the electrical personnel must be initiated. It is a periodic task which factory has to continue to improve overall electrical safety situation for the staffs.	1 Month	On 10/01/2017: Corrected	'06/12/2016	Corrected	Corrected	
23	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	BY CH: Factory asking timeline is 22/02/2017 which is not acceptable. On 02/04/2017: Corrected.	'15/02/2017	Corrected	Corrected	

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24	New Finding: Power bus bars are installed congested; and power cables touch other phase bus bar/s	Power bus bar must be installed with adequate clearance (not less than 2.5 inch for LV) between two bars. Cables must not touch opposite bus bars in any case.	1 Month	On 02/04/2017: Corrected.	'15/02/2017	Corrected	Corrected	
25	New Finding: List of circuit or SLD of existing circuits are not available on each electrical panel/board.	List of circuit or SLD of respective circuits shall be available for each electrical panel/board.	1 Month	On 02/04/2017: Corrected.	'15/02/2017	Corrected	Corrected	
26	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 Week	On 02/04/2017: Not Corrected. On 19/07/2017: Not Corrected. On 19/10/2017: Not corrected. On 11/03/2018: Corrected	'20/01/2017	Corrected	Corrected	

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27	New Finding: Panel/Distribution boxes are inaccessible or cannot be opened to perform any maintenance work.	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.	1 Month	BY CH: Factory asking timeline is 31/03/2017 which is not acceptable. On 02/04/2017: Corrected.	'15/02/2017	Corrected	Corrected	
28	New Finding: Inconvenient access to the generator room. and inadequate working clearance around the generator.	Convenient access must be ensured for maintenance purpose & for avoiding accidental occurrence. 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	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Corrected.	'30/09/2017	Corrected	Corrected	
29	New Finding: Substation & Boiler room has inadequate ventilation	Adequate ventilation must be maintained in sub-station & boiler room. Cross/forced ventilation must be ensured. For exhaust fan, the fan diameter must not be less than 18 inch for substation.	2 Months	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Not corrected. On 11/03/2018: Corrected	'30/09/2017	Corrected	Corrected	

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30	New Finding: Circuit breakers are installed congested.	Circuit breaker shall be installed in such a way that cables can be terminated without tension, and do not touch exposed opposite phase conductor in any case.	2 Months	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Corrected.	30/09/2017	Corrected	Corrected	
31	New Finding: (i) Power socket is broken and hanging from the channel. (ii) Cable channel underneath the table is not firmly supported.	(i) Replace broken socket with the new one, and fix with base firmly. (ii) Ensure the support used to hold cable channel underneath the table has enough strength to carry the weight of the channel.	1 Month	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Corrected.	30/08/2017	Corrected	Corrected	
32	New Finding: Equipment earth cable (for generator) size is inadequate.	Equipment earth connection for generator shall be drawn from at least two separate point of generator; and the 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	2 Months	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Corrected.	30/09/2017	Corrected	Corrected	

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33	New Finding: Cable shaft outer wall of the building is not covered.	Cover the cable shaft/ cable raceway to protect cable from rain water and UV light.	2 Months	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Corrected.	'30/09/2017	Corrected	Corrected	
34	New Finding: 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.	2 Months	On 19/10/2017: Not corrected. On 11/03/2018: Corrected	'30/09/2017	Corrected	Corrected	
35	New Finding: (i) Circuit do not have any identification. (ii) Circuit directory is not readable. (iii) Each circuit do not have dedicated neutral.	(i) Provide circuit directory for each board indicating current rating of circuit and size of fuse element/ breaker. Means for identification may be done by providing separate colour coding, marking tape, tagging, or other approved means. (ii) Circuit directory shall be clearly readable, and it shall be attached on or adjacent the panel (iii) All circuit shall have dedicated and adequate size of	2 Months	On 19/10/2017: Not corrected. On 11/03/2018: Not Corrected On 22/07/2018: Not corrected. On 14/01/2019: Corrected.	'30/09/2017	A. We have already provide identification for the circuits by color loop. B. We have already posted the circuit directory on panel board which is readable. C. Our each circuit already has dedicated neutral and we have partially done the work. Rest of the work will be completed soon.	Corrected	

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36	New Finding: Substation & Boiler room has inadequate ventilation	Adequate ventilation must be maintained in sub-station & boiler room. Cross/forced ventilation must be ensured. For exhaust fan, the fan diameter must not be less than 18 inch for substation.	2 Months	Factory asking timeline is 30/09/2017 which is not acceptable. On 19/10/2017: Not corrected. On 11/03/2018: Corrected	30/09/2017	Corrected	Corrected	
37	New Finding: Transformer Arcing horn/s are missing/not installed yet.	Transformer arcing horn must be installed with proper alignment.	1 Month	On 11/03/2018: Corrected	30/11/2017	Corrected	Corrected	
38	New Finding: Transformer Oil Test (dielectric strength test) report is unavailable.	Transformer oil test (dielectric strength test for oil) shall be done once in a year.	1 Month	Factory asking timeline is 30/06/2018 which is not acceptable. On 11/03/2018: Not Corrected. New committed time line is given till 20/04/2018 to close this issue. On 22/07/2018: Corrected.	20/04/2018	Corrected	Corrected	

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39	New Finding: Electrical rectification work doesn't reflect 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	Factory asking timeline is 30/06/2018 which is not acceptable. On 11/03/2018: Not Corrected. New committed time line is given till 20/04/2018 to close this issue. On 22/07/2018: Corrected.	20/04/2018	Corrected	Corrected	
40	New Finding: 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 11/03/2018: Not Corrected. New committed time line is given till 20/04/2018 to close this issue. On 22/07/2018: Corrected.	20/04/2018	Corrected	Corrected	
41	New Finding: Cable duct/channels are filled with fluffs (Lint/dust)	Cable channels/ducts must be kept clean; these must be sealed properly thus no scope of ingress of fluffs.	1 Month	On 22/07/2018: Corrected.	20/04/2018	Corrected	Corrected	

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42	New Finding: Multiple cables connected/terminated at the bus bar through single cable lug.	Each power cable shall be terminated at bus bar through single cable.	1 Month	On 22/07/2018: Corrected.	'20/04/2018	Corrected	Corrected	
43	New Finding: Hazardous light in store room / storage areas is uncovered.	Hazardous light in store room / storage areas shall be covered by proper type material	1 Month	On 22/07/2018: Corrected.	'20/04/2018	Corrected	Corrected	
44	New Finding: MCCBs are not adjusted according to load demand.	To save power cables all the MCCBs must be adjusted according to load demand; if adjustment is possible replacement will be the only way.	2 Month	On 22/07/2018: Not corrected. On 14/01/2019: Corrected.	'20/04/2018	We readjusted the MCCBs according to our load limit.	Corrected	