# Structural Safety Inspection Report

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| Factory Name | Impress Newtex Composite Textile Ltd |
| Factory ID | 9514 |
| Factory Address | Gorai, Mirzapur |
| Date of Initial Inspection | 14-May-2014 |
| Date of Review Inspection | 09-Feb-2021 |
| Inspected by | Abhishek Gain |

RSC RMG SUSTAINABILITY COUNCIL

| Item No | Inspection Observation | Action Plan from Inspection (Recommendation) | Timeline from Inspection | Final Action Plan from Factory | Final Timeline (dd-mmm-yyyy) | Comments after Physical Inspection | Progress Status | Pictorial Evidence |
|---|---|---|---|---|---|---|---|---|
| 1 | No fire proofing for steel structure elements | Fireproofing material for structural steel element is recommended as suggested in BNBC codes | Aug 24 2014 | We have installed sprinkler instead of fire proof paint | 01-Jan-2016 | **On 29/7/2015**:Fire proofing material is not required for the existing steel structure.<br>**On 7/5/2017:** Not Applicable.<br>**On 6/8/2017:** Fire proofing materials is not required for existing structure. This issue remains corrected.<br>**On 12/03/2018:** Fire proofing not required. This issue is corrected from previous follow-up.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** N/A. This issue is corrected in previous follow-up inspection. | Corrected | |
| 2 | No fire proofing for steel structure elements | Maintain standard of quality control. | Within 6 months | Done | 31-Jan-2016 | **On 29/7/2015:** Fire proofing material is not required for the existing steel structure.<br>**On 7/5/2017:** Not Applicable.<br>**On 6/8/2017:** Fire proofing materials is not required for existing structure. This issue remains<br>**On 12/03/2018:** Fire proofing not required. This issue is corrected from previous follow-up.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** N/A. This issue is corrected in previous follow-up inspection. | Corrected | |
| 3 | Inconsistencies between the drawing of Building 2 and the actual as - built condition. | Factory Engineer to servey the actual condition and revise the drawings. | Dec 30 2014 | We got DEA approval from Accord on 3rd october 2018 and we have already completed all retrofitting work in line with the said approval on 19th December 2018. | 31-Jan-2016 | **On 29/7/2015:**This issue will be covered under DEA. The factory management submitted the DEA which is under review.<br>**On 7/5/2017:** During inspection it was found that factory management was demolishing the building.<br>**On 6/8/2017:** Factory engineer has produced as-built drawing as a part of DEA. The factory has got some review comments on the submitted DEA on 26-July-2017 and on the day of inspection, they told that they are working on the review comments. During inspection it was found that 1st floor of the building has been demolished except stair room portion. Factory shall have to submit revised DEA considering review comments as early as possible.<br>**On 12/03/2018:** Factory engineer has produced as-built drawings as a part of DEA. Review comments on factory DEA were sent on 13th Jan 2018. Factory has submitted revised DEA on 5th Feb 2018 which is under review.<br>**On 13-12-2018:** Factory prepared an as-built drawing with the DEA report and got acceptance on 3-10-2018 from Accord. During verification, the drawing was verified on site and found match with as-built condition.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:**This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021**: This issue is corrected in previous follow-up inspection. | Corrected |  |

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| 4 | Inconsistencies between the drawing of Building 2 and the actual as - built condition. | Factory Engineer to review design, loads and columns stresses to confirm suitability for loads applied. | Dec 30 2014 | We got DEA approval from Accord on 3rd october 2018 and we have already completed all retrofitting work in line with the said approval on 19th December 2018. | 31-Jan-2016 | **On 29/7/2015:**This issue will be covered under DEA. The factory management submitted the DEA which is under review.<br>**On 7/5/2017**: During inspection it was found that factory management was demolishing the building.<br>**On 6/8/2017:** Factory engineer had reviewed the column stress as a part of DEA. The factory has got some review comments on the submitted DEA and on the day of inspection, they told that they are working on the review comments. Factory shall have to submit revised DEA considering review comments as early as possible.<br>**On 12/03/2018:** Factory engineer has produced as-built drawings as a part of DEA. Review comments on factory DEA were sent on 13th Jan 2018. Factory has submitted revised DEA on 5th Feb 2018 which is under review.<br>**On 13-12-2018:** Factory demolished 1st floor and reviewed the design for the existing single storey building and got acceptance on 3-10-2018 from Accord with retrofitting recommendation of shed on staircase. During inspection, the retrofitting was checked and found matched with approved retrofitting drawing.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** Corrected in previous follow-up inspection. This issue is covered in DEA and DEA got acceptance from Accord on 3-10-2018. Factory authority completed all the remediation work as per approved DEA. | Corrected |  |
| 5 | Inconsistencies between the drawing of Building 2 and the actual as - built condition. | Produce and actively manage a loading plan for all floor plates within this area giving consideration to floor capacity and column capacity. | Dec 30 2014 | We got DEA approval from Accord on 3rd october 2018 and we have already completed all retrofitting work in line with the said approval on 19th December 2018. | 31-Jan-2016 | **On 29/7/2015:**This issue will be covered under DEA. The factory management submitted the DEA which is under review.<br>**On 7/5/2017:** During inspection it was found that factory management was demolishing the building.<br>**On 6/8/2017:** During inspection it was found that 1st floor of building has been demolished except stair room portion. However, factory produced load plan for the ground floor along with DEA report. Factory shall have to submit revised DEA considering review comments as early as possible.<br>**On 12/03/2018:** During inspection the first floor was found demolished. Factory engineer has produced ground floor load plan as a part of DEA. Review comments on factory DEA were sent on 13th Jan 2018. Factory has submitted revised DEA on 5th Feb 2018 which is under review.<br>**On 13-12-2018:** Factory prepared a load plan with the DEA report and got acceptance on 3-10-2018 from Accord. The load plan was posted on ground floor and load was found within 42 psf as per approved load plan.<br>**On 6th Jan-2019:** Corrected from previous inspection. Load plan has been produced and accepted as a part of DEA. During inspection accepted load plan was found posted at every floor and load was found below the allowable limit.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. Load was found below 42psf. | Corrected |  |

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| 6 | Inconsistencies between the drawings of Building 2 and the actual as-built conditions. | Continue to implement load plan | Within 6 months | We got DEA approval from Accord on 3rd october 2018 and we have already completed all retrofitting work in line with the said approval on 19th December 2018. | 31-Jan-2016 | **On 29/7/2015:**This issue will be covered under DEA. The factory management submitted the DEA which is under review.<br>**On 7/5/2017:**This issue will be covered under DEA. The factory management submitted the DEA which is under review. During inspection it was found that factory management was demolishing the building.<br>**On 6/8/2017:** During inspection it was found that 1st floor of building has been demolished except stair room portion. However, factory produced load plan for the ground floor along with DEA report. Factory shall have to submit revised DEA considering review comments as early as possible.<br>**On 12/03/2018:** During inspection the first floor was found demolished. Factory engineer has produced ground floor load plan as a part of DEA. Review comments on factory DEA were sent on 13th Jan 2018. Factory has submitted revised DEA on 5th Feb 2018 which is under review.<br>**On 13-12-2018**: Factory prepared a load plan with the DEA report and got acceptance on 3-10-2018 from Accord. The load plan was posted on ground floor and load was found within 42 psf as per approved load plan.<br>**On 6th Jan-2019:** Corrected from previous inspection. During inspection accepted load plan was found posted at every floor and load was found below the allowable limit.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. Building-2 2nd storey was demolished. At present, the building is single storied. | Corrected |  |
| 7 | Overall stability system | Request that the Detail Engineering Assessment of the overall building to be carried out and in particular, stability and foundation aspect should be investigated in detail. | Dec 30 2014 | We got acceptance for DEA from Accord on 3rd october 2018 with some recommendation. After that, we have already completed all retrofitting work in line with the said approval on 19th December 2018. | 31-Jan-2016 | **On 29/7/2015**:This issue will be covered under DEA. The factory management submitted the DEA which is under review.<br>**On 7/5/2017**: This issue will be covered under DEA. The factory management submitted the DEA which is under review. During inspection it was found that factory management was demolishing the building.<br>**On 6/8/2017:** This issue will be covered under DEA. The factory has got some review comments on the submitted DEA on 26-July-2017 and during inspection, they told that they are working on the review comments. Factory shall have to submit revised DEA considering review comments as early as possible.<br>**On 12/03/2018:** This issue should be covered in DEA. Review comments on factory DEA were sent on 13th Jan 2018. Factory has submitted revised DEA on 5th Feb 2018 which is under review.<br>**On 13-12-2018:** Factory prepared DEA for the Building-1 , Building-2 and Building-3 and got acceptance on 3-10-2018 from Accord with some retrofitting recommendation. Factory finished recommended retrofitting work for Building-2 and Building-3 which were verified on site during inspection. Moreover, factory completed around 90% retrofitting work of Building-1. Factory is required to complete the retrofitting work within approved time period (25-12-2018).<br>**On 6th Jan-2019**: During inspection it was observed that factory has completed all remediation works as per accepted retrofitting drawing in Building-1, Building-2 and building-3. Retrofitting completion certificate has also provided by the consultant.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. DEA of Building-1 , Building-2 and Building-3 was accepted by Accord on 3-10-2018. Retrofitting was completed. | Corrected | |
| 8 | Reinforcement left exposed at roof level of Building 2 | For both durability and serviceability, rust proof paint or any appropiate methods is recommended | Jan 12 2015 | All exposed reinforcement are covered with concrete | 26-Jun-2015 | **On 29/7/2015:** Done. On verification we found that they have covered the exposed reinforced by concrete. We did not find any exposed reinforcement.<br>**On 7/5/2017:** Corrected in previous inspection.<br>**On 6/8/2017:** Corrected in previous inspection. During inspection it was found that re-bars are exposed after demolition of 1st floor. This issue is to be covered in new findings.<br>**On 12/03/2018:** Factory has cut down all the exposed re-bars.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. Exposed re-bars were cut down. | Corrected |  |

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| 9 | No waterproofing material at roof level. | Engineer to inspect water damaged structure including the exterior and propose a suitable repair. | Within 6 months | We have already repaired the roof slab and drainage of slab to stop water gater on it. | 26-Jun-2015 | **On 29/7/2015**:Done. On verification we found that water proofing material was applied.<br>**On 7/5/2017:** Corrected in previous inspection.<br>**On 6/8/2017:** Corrected in previous inspection.<br>**On 12/03/2018:** Corrected in previous follow-up.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection.<br>**On 6th Jan-2019**: Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. | Corrected | |
| 10 | No waterproofing material at roof level. | •For both durability and serviceability, waterproofing on the roof slab is recommended. Moreover the roof slab drainage system should be investigated. | Within 6 months | We have already repaired the roof slab and drainage of slab to stop water gater on it. | 26-Jun-2015 | **On 29/7/2017:**Done. On verification we found that water proofing material was applied.<br>**On 7/5/2017:** Corrected in previous inspection.<br>**On 6/8/2017:** Corrected in previous inspection.<br>**On 12/03/2018**: Corrected from previous follow-up.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. | Corrected |  |
| 11 | New finding #1: Reinforcement left exposed at roof level of Building 2 after 1st floor demolition | For both durability and serviceability, rust proof paint or any appropiate methods is recommended | Within 6 – weeks | We have covered the reinforcement with concrete. | 06-Sep-2017 | **On 6/8/2017:** During inspection it was found that re-bars are exposed after demolition of 1st floor. The factory is required to take necessary steps for protecting the rebar against corrosion.<br>**On 12/03/2018:** Factory has cut down all the exposed re-bars.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection. **On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. Exposed re-bars were cut-off. | Corrected | |
| 12 | New finding #2: Corrosion found at steel column joint beside toilet zone | Building engineer to check corrosion and suggest remedial measures | Within 6 – weeks | we have covered steel column with brick wall. | 06-Sep-2017 | **On 6/8/2017:** During inspection it was found that steel members are corroded due to water contact in toilet area. The factory is required to take necessary steps for protecting the rebar against corrosion.<br>**On 12/03/2018**: Factory has repainted the corroded steel members and built brick wall around to prevent corrosion in future.<br>**On 13-12-2018:** The issue is corrected according to the previous inspection. No corrosion was observed during inspection.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. Corrosion was repaired. No further corrosion was observed. | Corrected |  |
| 13 | New finding #3: Corrosion found at steel purlins in building 1 | Building engineer to check corrosion and suggest remedial measures | (within 6 – weeks) | We have already removed corrotion from steel purlins and taken proper remedial measures to prevent corrotion in future. | 26-Apr-2017 | **On 12/03/2018:** During inspection, corrosion was observed on purlins due to water ingress. Factory is required to check corrosion and take remedial measures to prevent corrosion in future.<br>**On 13-12-2018:** No corrosion was observed during inspection. Factory is required to check the corrosion on steel member on regular basis.<br>**On 6th Jan-2019:** Corrected from previous inspection.<br>**On 23-Sep-2020:** This issue is corrected in previous follow-up inspection.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. No further corrosion was observed. | Corrected |  |

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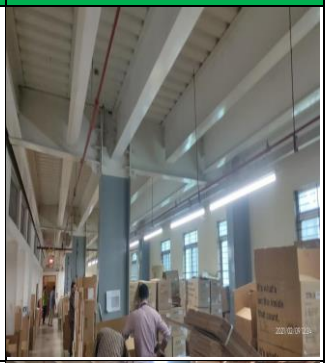
| 14 | New finding # 4: Factory Engineer is required to review design, loads and stresses in all columns & foundations for the newly constructed 4-storied building adjacent with the Building-1 | Engage a qualified structural engineer to confirm structural performance of the structure to comply with BNBC code and produce & actively manage a loading plan for all floor plates. | (within 6 – weeks) | Corrected. Detailed Engineering Assessment (DEA) has been reviewed & re-accepted by RSC on 21/11/2020. As per the approval, no retrofitting is required for the Extension part of Building-1. | 24-Jan-2019 | **On 13-12-2018:** During inspection, a newly 4-storied building was observed which is east side of the Building-1 and connected with Building-1 with movement joint. The building is currently using for production purposes. Factory is required to engage a qualified engineer for assessing the structural performance and submit to Accord.<br>**On 6th Jan-2019:** Factory has not submitted the EA of the new building yet. Factory is required to submit the EA of the building.<br>**On 23-Sep-2020:** EA got acceptance by RSC on 16 Jul 2020. During EA verification, mismatches were found between accepted drawings and actual site condition. Flange thickness of all steel columns of the 2nd floor was not matched( 5mm less than drawing) with as built drawings. Factory is required to update the drawings and FEM and submit to RSC within 2 weeks after receiving this report.<br>**On 09-Feb-2021:** Factory submitted revised documents as per discrepancies found in verification inspection and got re-acceptance from RSC on 21st Nov 2020. No discrepancy was found during verification. No remediation was required. | Corrected |  |
| 15 | New finding # 5: Heavy Loading observed on roof of the toilet block in the Building-1 top floor | Factory is required to check the load carrying capacity of the slab due to presence of water tanks and implement necessary recommendations as per assessment | (within 6 – weeks) | We have already removed 5 nos. 2000 litters PVC water tank on roof of toilet block in top floor of Building -01. Now it is totally clear and declared non-occupant area. | 24-Jan-2019 | **On 13-12-2018:** During inspection, 5nos. 2000 Liters PVC water tanks were observed on roof of toilet block in top floor of Building-1. Factory is required to check the capacity of the slab to carry the imposed load of water tank.<br>**On 6th Jan-2019:** Factory has not submitted the adequacy check of the new slab yet. Factory is required to submit the adequacy check .<br>**On 23-Sep-2020:** Factory has removed the heavy loading from the toilet block roof. Factory authority also provided consent letter that they shall not impose heavy loading on the toilet roof.<br>**On 09-Feb-2021:** This issue is corrected in previous follow-up inspection. No heavy loading was observed on rooftop. | Corrected |  |