

Name of the work :- Removing and Fixing broken glass at North west side Light well area of inStem Laboratory building

inStem/Maint(Civil) /15/NIT-50/2022 DT.28/07/2022

Scope of work

Sl no	Description	Unit	Qty
1	Removing existing fixed glazing in sky lights, Providing and fixing new fixed glazing in aluminium frame skylights etc., with Laminated glass of approved quality of 13.52mm overall thickness with 1.52mm thick polyvinyl butyl sandwiched between 2 layers of toughened glass of thickness 6 on each. Colour of glass shall be Antelio blue of 50% transmission as per approved sample of the Architects. The glass shall be fixed with necessary structural & weather silicon sealant of approved colour. Only the glass area provided shall be considered for the measurement. Item rate shall include , laminated glass, silicon sealants and all necessary accessories including flashing except MS framing work. MS framing work shall be measured in separate relevant item. Complete all including labour, Material, Tools, Equipments, Levies, and Scaffolding as directed by the Engineer- in-charge.	Sqm	12.96
2	Providing and fixing Double glazed dual sealed insulating glass to aluminium frame with norton tape, silicon structural sealant and weather proofing using weather proofing sealant (Dow-corning/Wacker or equivalent) silicon joint visible from outside. The insulated glass comprising of first 6mm thick Olive, Nano SKN 154 (external) toughened (Saint-Gobain, or equivalent) with the solar control and Low E coating on face 2, second 5mm thick clear float glass (internal) toughened (Saint-Gobain or equivalent), (meeting the minimum glass specification mentioned below) separated by spacers to create 10mm dehydrated air space and thermatically sealed by using double sealed organic sealant (priming sealant of thermoplastic), solvent free polyisobutylene which is applied on both sides of spacer, secondary sealant comprising of two component polysulphide in the right proportion for final outer seal including perforated channel for air spaces and complete processed with expertise of manufacturing insulated glass (Gurind/ Art N glass /Gold Plus).(1)Light Transmission - 49% (2) Reflection (Ext.) -18% (3) Solar Factor -0.27 (4) U value -1.8 W/Sqm K. (The aluminium frame shall be paid separately in relevant item).	Sqm	1.40
3	providing staging from Basement /FFL of Ground and plywood platform at 24m level to facilitate supporting system and safety for fixing glass and aluminium works at roof level all as per specification and directions	Sqm	11.10