		valves, dampers, blower, drains, exhaust, safety etc ○ Automated transportation system for movement of 'Cubed Green Brick Cage' from 'Pre-curing Chamber' to Autoclave - including L.S.P (Lift, shift & Place), rails, instrumentation etc.	
11.	**Automated LSP system for transferring 'Cubed Green Brick Cage' from 'Pre-curing Chamber' to 'Autoclave'**	Automated LSP system for transferring 'Cubed Green Brick Cage' from 'Pre-curing Chamber' to Autoclave - including rails, rollers, support structure, drive mechanism, instrumentation etc.	1Set
Part C Autoclave Unit			
1.	**Steam Autoclave**	○ Dimensions: (i) Inner diameter - 2800 mm, (ii) Cylindrical Shell Length – 28000 mm (exact dimensions shall be finalized at the stage of detailed engineering), (iii) Thickness of shell of 20 mm thick of ASTM 516 Grade 70 ○ Design Parameters: (i) Pressure - 16 Bar(g), (ii) Temperature - 193C ○ MOC: ASTM A 516 Grade 70 ○ Insulation: 100 mm (Min) Mineral wool with 24 guage Aluminium Sheet Cladding ○ Other design parameters; (i) Safety coefficient-1.5, (ii) Corrosion allowance-1.0 mm ○ Duty: Continuous, Autoclaves quantity based on the assumption of a 12 hour autoclave ○ Process Steam: Process Steam shall be provided from power plant. It is in Bidder's scope to extend the steam line to the site which includes piping/fitting, valves, pump, motor, PRDS, IBR approvals, electrical system, instrumentations etc. ○ Accessories: (i) Steam injection & distribution system, (ii) Condensate removal system, (iii)	4

		Exhaust Steam System to Pre-curing chamber, (iv) Instrumentation, (v) Safety system	
2.	**CO2 Autoclave**	○ Dimensions: (i) Inner diameter – 2,800 mm, (ii) Cylindrical Shell Length – 28,000 mm, (iii) Shell Thickness > 20 mm ○ Design Parameters: (i) Pressure - 16 Bar(g), (ii) Temperature - 193C ○ MOC: ASTM A 516 Grade 70 ○ Epoxy-based or Glass-Lined Coating packed well and cladded with SS sheet inside the carbonation autoclave to prevent corrosion ○ Anti corrosive painting to be done both outside and inside autoclave-based carbonation chamber (Specs to be included) ○ Insulation: 100 mm (Min) Mineral wool with 24 guage Aluminium Sheet Cladding ○ Other design parameters; (i) Safety coefficient-1.5, (ii) Corrosion allowance-1.0 mm ○ Duty: Continuous, Autoclaves quantity based on the assumption of a 1-hour CO2 carbonation cycle ○ CO2 for Sequestration: It is in Bidder's scope to extend the CO2 from buffer tank, placed in CO2 storage block to the C-Brick plant site which includes piping/fitting, valves, pump, motor, heater, electrical system, instrumentations etc. ○ Accessories: (i) CO2 injection & distribution system, (ii) CO2 removal system, (iii) Exhaust CO2 vent, (iv) Instrumentation, (v) Safety system	2
3.	**Automated system for movement of 'Cubed Green Brick Cage' inside 'Autoclave'** - including L.S.P (Lift, shift & Place), rails, instrumentation etc		1 Set
4.	**Unloading & Stacking of 'C-Brick' in 'C-Brick Stackyard':** System shall be so designed that the 'C- Bricks' is stored as a finished product in 'C-Brick Stackyard'. Goliath/Gantry Crane & Hydraulic Gripper Unit, Automated De-Stacker, Automated Cuber or any other similar mechanized system shall be provided.		1 Set
5.	**Automated system for movement of empty 'Pallet' frames back for reuse.**		1 Set
Part D: MATERIAL HANDLING EQUIPMENT			