

PROJECT :- Double Story LGSF Structure For School of Pharmaceutical Education & Research					
BOQ - LGSF STRUCTURE WORKS					
S. No.	DESCRIPTION	UNIT	QTY.	RATE	Amount
1	Designing, providing, installing and fixing factory finished custom designed cold form Light Gauge Steel Framed super structure comprising of steel wall panel, trusses, purlins etc manufactured out of minimum 0.75 mm thick steel sheet as per design requirements. The steel sheet shall be galvanized (AZ-150gms Aluminium Zinc Alloy coated steel having minimum yield strength 300-550 Mpa) conforming to AISI specifications and IBC 2009 for cold formed steel framing and construction and also as per IS: 875-1987, ISO 800-1984 and IS:801-1975. The wind load shall be as per provisions of IS 875 (part -III). LGSFS frame shall be designed as per IS: 801 using commercially available software such as Frame CAD Pro-11.7/ STAAD PRO-V8i/ ArchitekV2.5.16/ Revit architecture-2011 or equivalent. Proper usage of Connection Accessories like Heavy Duty Tension Ties, Light Duty Hold-ons, Twist Straps (to connect truss with wall frames), Strong Tie, Tie Rod, H-Brackets, Boxing Sections, L-Shaped Angles for better structural stability. The framing section shall be cold form C-type having minimum web depth 89 mm x 39mm flange x 11mm lip in required length as per structural design requirement duly punched with dimple/ slot at required locations as per approved drawings. The slots will be along centre line of webs and shall be spaced minimum 250mm away from both ends of the member. The frame can be supplied in panelized or knock down condition in specific dimensions and fastened with screws extending through the steel beyond by minimum of three exposed threads. All self drilling tapping screws for joining the members shall have a Type II coating in accordance with ASTM B633(13) or equivalent corrosion protection of gauge 10 & 12, TPI 16 & 8 of length 20mm. The frames shall be fixed to RCC slab or Tie beam over Neoprene rubber using self expanding carbon steel anchor bolt of dia as per approved drawings. design subject to minimum 12mm diameter and 121mm length conforming to AISI 304 and 316 at 500mm c/c with minimum embedment of 100mm in RCC (RCC to be paid separately) and located not more than 300mm from corners or termination of bottom tracks complete in all respects. The item also includes the submission of stability reports duly examined and issued by any NIT/IIT. The rate includes the concept design, detailed design, fabrication of sections, transportation, installation and all required fixing arrangement at site as described above. (MAKE- JSW, TBSL)	Kg	15,950.00		
2	Providing and fixing of external wall system on Light gauge steel frame work with outer face cement boards as per standard sizes fixed with self- drilling / tapping screws / fasteners @ 60cm c/c of approved make. A groove of 2 mm to 3mm shall be maintained and grooves shall be sealed with silicon based sealant. The board shall be fixed in a staggered pattern. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick or 8 to 10 gauge of length varying from 25 to 45 mm and. Internal face 12.5 mm thick gypsum plaster board fixed on cement board as per standard sizes fixed with selfdrilling / tapping screws / fasteners @ 60cm c/c of approved make, proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately) Outer face: Outer face having 6mm thick fiber cement board fixed on 9mm thick fiber cement board, Type A, as per IS:14862:2000 (high pressure steam cured) Inner Face :- 12.5 mm thick gypsum plaster board conforming to IS 2095:2011 fixed on 8 mm thick fibre cement board confirming to IS:14862:2000 of type B (High pressure steam cured)Paint is also included in the item and shall not be paid extra. The textured paint system shall be of Magic XP two coats over elastomeric putty over Cement board joints 3-4mm covered with Jointing tape and then top coated with Weather Touch - Anti-fungal Emulsion to get the desired colour and seamless finish as approved by Architect. Approved Makes are as follow: Make of Paint- (ICI, Asian, Berger) Make of Cement Board-(Everest, Ecopro, SCG)	Sqm	638.00		
2	Providing and fixing internal wall panels on Light gauge steel frame work with 12.5mm thick gypsum plaster board conforming IS 2095:2011 fixed on cement board as per standard sizes fixed with self-drilling / tapping screws / fasteners @ 60cm c/c of approved make, Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick or 8 to 10 gauge of length varying from 25 to 45 mm. Proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately Cement Fiber Board 8 mm thick as per IS 14862:2000 of type B (High pressure Steam Cured). Paint is also included in the item and shall not be paid extra	sqm	250.00		
3	Providing and fixing in all exterior face panels breathable vapour barrier underneath the cement fiber board as per National Building Code 2009 complete as per direction of Engineer-in-charge.	sqm	150.00		
4	Deck Sheet 0.8mm-1.2mm thk for Deck Slab Decking Sheets in 51mm depth profiles in the thickness range of 0.80mm to 1.2mm. Profiles : 51/230 (51mm depth x 960mm wide) Thickness : 0.80 to 1.2mm Length : upto 12000mm Material : CR Steel as per IS:513 D-Quality / HR Steel as per IS:1079 / Galvanized Steel (as per IS:277) Type : Primer coated	sqm	950.00		
5	Underdeck Roof insulation:- 13mm XLPE roof insulation with FSK is considered under the roof. Approved make (Aerolam, MK Petro, Supreme)	sqm	925.00		
6	Roofing- Providing and fixing on the roof, shall be covered by Hi quality PPGI colour coated profile sheets .50mm. Make (Asian /Essar/Equivalent For extra precautions every hole will be sealed with silicon (rubberized chemical compound).	sqm	524.00		

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7	Structural Framing for Wall & roof Construction				
	Providing and fixing of steel structure- the steel structure shall be made out of MS tubular section (SHS & RHS) with truss, purling and portals. The steel structure shall be coated with rust preventive red oxide primer Make: JINDAL/Best/Hi-tech/surya/Equivalent.	kg	9,000.00		
	Size of section - ISMC 300/ISMC 200/ISMC 100 etc				
8	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 48 kg/m3, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge	Sqmt	888.00		