

**INTERNATIONAL CENTRE FOR THEORETICAL SCIENCES  
TATA INSTITUTE OF FUNDAMENTAL RESEARCH**

**Name of Work :** Designing, Supply and Fabrication, erection frame work for Car parking (with solar PV Panel system) at ICTS-TIFR campus, Shivakote village Bengaluru.

**Schedule of Quantities**

Sl No.	Description of Items	Unit	Qty	Rate	Amount
1	Design, Fabrication, Supply & fixing/erection all types of Structural steel fabrication work for the following using M/s. Sail or RINL or Apollo or M/s. Tata welded, riveted, bolted in built up sections for parking roof MS structure, truss, purlins and framed work suspenders, supports, portals frames, foundation bolts etc., for solar panels supporting structure at all floors and locations, heights, including scaffolding, bracing, multi level staging, lead etc., gazettes plate, base plate etc. Using specified structural steel sections like angles, tees, flats, bars, chequered plates, sheets Channel/I sections, M.S tubes section/pipes, joists, bolts & nuts, M.s rods, threaded U/J bolts, washers, suitable size anchor fasteners of M/s Hilti or approved make for concrete and masonry, drilling holes in concrete & masonry etc., including supplying, cutting, fabricating in all geometric shape, curvilinear at all leads and lift and necessary scaffolding	MT	8		
	CO2 welding, bending to shape, (curved), wastages, hoisting/erecting, fixing in position, making holes/chases wherever required and fixing /embedding in position in concrete/brick work with necessary hold fasts/ supporting plates, cleats, gazette plate, screws & rawl plugs and finishing the concrete/ brick work after fixing/ embedding including painting one coat Zinc chromate primer over shop coat of approved anticorrosive primer and two coats of Duco paint of approved make and colour on all exposed surfaces over a coat of approved steel primer etc. Complete as per specifications, drawings and as directed.				
Note:	1. Approximate size of solar panel is 982/1010mm x 1639/1600mmx40/35mm with an avg weight 20kgs.				
	2. Quoted rate shall be inclusive of providing structural Silicon sealant of exterior grade DC 789/793 of DOWCORNING USA or G.E Silicon USA /WACKER Germany including fixing suitable size backer rod at all joints between panels.				
	3. Agency shall submit 2-3 alternate design of structural frame/truss system for approval with out any extra cost to department.				
2	Providing and fixing Skylight using approved coloured translucent (Grey/Bronze/light green) Multiwall cell Polycarbonate Sheet of 10mm thick of M/s Sabic/Polygal or other approved equivalent make including silicon sealant, EPDM triple barriers, tape, weather strip to ensure water and air-tightness as per the approved design fixed to steel frame work to form suitable grid and aligned to perfect level including fixing over MS structural steel truss and other support members all Anchor plates, nuts, self tapping screws, bolts and other fixtures and hardware. The rate shall include scaffolding, wastages, transportation, etc. complete	Sqm	110		
	<b>Note:</b> 1. Actual laid area of the skylight shall be measured and paid for.				
	2. Quoted rate shall be inclusive of aluminium profiled section at sheet joints. End profile along the cut edges either with suitable size aluminium channel or same material shall be provided with suitable adhesive.				
	3. Quoted rate shall be inclusive of providing structural Silicon sealant of exterior grade DC 789/793 of DOWCORNING USA or G.E Silicon USA /WACKER Germany including fixing suitable size backer rod at all joints between panels & sheet.				
	<b>Total Rs.</b>				

**Note:** 1. Rate inclusive of all WCT, Labour cess, Service tax and other applicable taxes if any.  
2. Actual fabric surface area shall be considered for payment up to two decimals.  
3. Electricity will be provided by department at a unit cost of Rs.8.00, separate meter shall be installed by the agency.



4. Quoted rate shall be inclusive of disposing all debris generated at a designated place as per the statutory authorities.

5. Damage to any existing Structure & installations shall be restored back without any cost to department.

6. No extra payment will be made for minor dismantling works like, plaster, brickwork, concrete and masonry.

7. Quoted rate shall be inclusive of transportation, all leads & lifts, necessary fittings & fixtures, S.S screws etc.,

8. Any damage/ dents is found in the roof/structure, same shall be liable for rejection.

9. All the materials shall be got approved before installation.

10. Mobilization advance is not applicable.

11. Scope cover complete design and installation. Hence any extra claim on account of any reason shall be carried without extra cost to department.

12. Detail as built drawings shall be submitted for approval before fabrication and installation.

13. Running bill will be paid after completion of stages like fabrication of frames, painting etc., commensurate with the quantum of work done.

14. Structural design and safety shall be the part of the scope. Detail analysis along with the drawing shall be submitted. Structural stability and safety certificate issued from a structural consultation shall be submitted.



(Rupees

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Contractor's Seal with Signature

