

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

Name of Work : Construction of new office space at connecting corridor ICTS-TIFR campus, Shivakote village Bengaluru.

NIT No:- ICTS/TIFR/Civil/CC/Project/01/01/2022-23 Dated: 14th Feb 2023

FINANCIAL BID

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Schedule of Quantities

Sl No.	Description of Items	Unit	Qty	Rate	Amount
A	CONCRETE WORKS				
1	Reinforced cement concrete M25 grade for all type of Structural/RCC Elements of all shapes in plain & curved and size, all geometrics etc., in super structure conforming to IS456-2000, at all floors and levels, heights for all shapes/design as per drawings using graded aggregate of 20mm and down using OPC with Manufactured sand (CRF-Crushed rock fine), machine mixing, conveying, placing in position, mechanical consolidation, finishing, curing, etc. complete all as per drawings, specifications & as directed by EIC.	Cum	44		
	FORM WORK				
2	Providing, erecting, fixing in position striking/removing and cleaning steel/timber shuttering & cantering for form work at all levels, heights, locations for all sizes, shapes in plain, curved surfaces and geometric shapes of structural/RCC elements including chamfers, splays, keys, wedges, props, rails, bracings, brackets, cutting holes for pipes etc., providing & applying approved form oil on all surfaces of form work coming in contact with concrete including close hacking of all exposed concrete work after removal of form work, all materials, labour etc. complete as per specifications, drawings and as directed by the Engineer-in-charge.	Sqm	500		
	(Area of form work in contact with concrete shall only be measured for payment and stop boards for construction joints will not be measured for payment)				
	REINFORCEMENT STEEL WORK				
3	Reinforcement for RCC work using Thermo Mechanically Treated bars of grade Fe-500 manufactured by SAIL/TATA STEEL/RINL only following including loading, unloading, transporting, decoiling, straightening, cutting, bending, placing in position and binding with 18 gauge, soft drawn annealed steel binding wire including carrying out various tests as required etc. All as per specifications, drawings & as directed by the EIC.	Kgs	6000		
	NOTE:-				
	The cost of binding wire shall be borne by the contractor and binding wire shall not be measured for payment.				
	CHEMICAL ANCHORING				
4	Providing and fixing M/s. Hilti chemical anchor for reinforcement dia varying from 12 mm to 20mm to a minimum anchorage depth of 150mm including drilling holes all as per the manufactures specifications for the existing structural members like column/beam/slab at all heights and levels with necessary scaffolding and staging arrangement, surface preparation etc, complete.	Each	180		
5	Providing and carrying out necessary pull-out test for the anchored reinforced steel to the existing structural element from the technical team of M/s Hilti all as per manufactures specification and direction. Note: If the chemical joint is failed same is to be redone with free of cost.	Each	4		

Schedule of Quantities

SI No.	Description of Items	Unit	Qty	Rate	Amount
	PLASTERING WORK				
	<p>Note:</p> <p>a) Before commencement of plastering, the area shall be cleaned, wetted and shall be marked with 'Thiyyas' or 'Tapanis' and shall be got approved by the Engineer-in-charge.</p> <p>b) Whenever the electrical contractor/ agency has to fix up switch boxes in walls, necessary Thiyyas or 'Dhadas' shall be arranged prior to plastering so that the electrical boxes are fixed properly in line with the finished plastered surfaces.</p> <p>c) Finishing around the junction boxes shall be done at all floor, level and position to the line, level and right angles as required while carrying out plastering work.</p> <p>d) No extra claim for consumption of plastering material shall be entertained by the department for the plastering done more than the specified thickness shown in the schedule of quantities, to bring the plastered surface to perfect line, level and plumb with adjoining columns and beams.</p> <p>e) Only Ready mix Mortar of approved make shall be used.</p>				
6	<p>Providing and plastering as mentioned below using factory manufactured pre mix/ ready mix of 'Roofit Mix' of M/s Premier Floor to Roof Materials pvt.ltd/ 'Build Well ready mix plaster' of M/s Walplast Products pvt.ltd/ 'Readiplast' of M/s Ultratech Cement Ltd / Readymade polymerised Dry mix Plaster - Silicoplast of M/s. Precise Conchem Pvt. Ltd.or other approved equivalent make, having minimum composition of Cement : Sand as 1:4 using fully treated dry, well graded natural sand conforming to IS 383 suitable for external plastering, having low rebound properties, low water demand for curing properties, mechanical mixing with water in a metallic tray only to make good consistency as per the specification of the Manufacturer and applied over exterior masonry and concrete surfaces in plain/curved surfaces and all geometric shapes and sizes including making plaster grooves, plaster bands of specific sized sizes if any, final rendering, including using richer mix for making corners if necessary and making nosing(D412) and food grade certification by CFTRI, including laying thermoplastic elastomeric joint sealing tape along the wall & slab joints which shall be fixed to the substrate using suitable adhesive. The coating shall be applied @1.5Kg/sqm in two coats on the entire horizontal and up to 300mm above FFL on the vertical su</p>				

Schedule of Quantities

SI No.	Description of Items	Unit	Qty	Rate	Amount
6.1	6 mm thick internal plaster for soffit finishing smooth to get uniform surfaces using RMP for all exposed surfaces concrete and masonry works.	Sqm	350		
6.2	15 mm thick internal plaster finishing smooth to get uniform plain surface using RMP for all exposed surfaces concrete and masonry works.	Sqm	200		
6.3	20 mm thick sand face plaster in two coats for brick/ concrete surfaces (external / internal) (back coat and finishing coat of 10 mm. thick each) with water proofing agent @ 2% by weight of cement or as per manufacturers specifications.	Sqm	300		
CONCRETE BLOCKS					
7	Providing and laying autoclaved aerated cement block of M/s. Megha lite, M/s. Siporex, M/s. Aerocon or equivalent for masonry works with 100mm/150mm/200mm thick AAC blocks in super structure above plinth level up to floor III level, parapet wall with RCC band if required with approved block laying polymer modified adhesive mortar of M/s. Wallplast, M/s. Siporex or equivalent make all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	Cum	25		
GRANITE WORKS					
8	Providing and laying 1st quality Steel grey granite flooring with 16-18mm thick circular saw cut machine cut, machine polished in pattern of all geometric shape as per drawings at all floors and levels as specified laid over M/s. MYK Laticrete 307 Adhesive as per manufactures specification including cleaning and preparing the surfaces for bedding, close jointed/ 4mm spacer joint and pointing with MYK laticrete 315-Plus white adhesive and mixing with colour powder/ pigment to get uniform matching shade or equivalent make, including curing, cutting of stone slab, making cut outs, cleaning and finished to line, level, wastage at all levels, lead, heights in single stone bull nosing/ champhering/ half rounding for ledge wall etc. cleaning, curing complete including all materials making required grooves in concrete & masonry and making good after completion , labours etc., all as per specification , drawing and as directed by the EIC.				
8.1	In flooring	Sqm	10		
8.2	In Skirting	RM	5		
PAINTING WORKS					
9	Providing and painting the internal plastered surfaces for walls, ceiling with two coats of premium Emulsion Paint of approved colour over a coat of primer including preparing the surfaces, providing wall care putty in two or more coats to get uniform plain surface, loner, level, scaffolding, double height staging, cleaning etc, at all floors, locations. Heights and lead etc., complete all as per specifications, drawings and as directed by the Engineer-in-charge.	Sqm	600		
10	Painting external plastered surfaces with one coat of weather coat long life of M/s. Berger paint or equivalent based on PU silicone technology to withstand heavy rain and water repellent or equivalent including providing non shrink having protection against fungal growth, flaking, fading, alkali and UV degradation and to give an even shade with required finish including cleaning the surfaces, applying one coat of primer, filling the crevices with approved filler with non shrink aquatech crack filler of M/s. Fosroc one coat of sealer and upto with scaffolding at all levels, heights, locations and lead etc., complete all as per specifications and as directed by EIC.	Sqm	1000		
WATER PROOFING WORKS					

Schedule of Quantities

SI No.	Description of Items	Unit	Qty	Rate	Amount
11	Supplying and applying single component, elastomeric 100% pure polyurethane coating for first layer , which is free from bitumen and tar, having elongation of 400% and tensile strength of 2-4 MPa(as per ASTM D 412), crack bridging up to 2mm, applied at total consumption of 1.8kg/sqm to achieve total system DFT of 1.2-1.3mm thickness. The coating shall be continued to the entire horizontal area and should be terminated at 300mm over the vertical surface for first layer and protected with screed concrete with water proofing chemical and average thickness of 75mm and minimum thickness of 25mm at drain point to maintain necessary gradient for easy flow of water and continuing the treatment along inner faces of parapet or adjoining wall at all levels, height and lead including 25mm thick water proofing plaster using RMP (1:4) finishing smooth and above this two component high performance polymer modified cementitious waterproofing coating, having minimum elongation of 120%, Tensile strength 1 N/mm ² (As per ASTM D412) and food grade certification by CFTRI, including laying thermoplastic elastomeric joint sealing tape along the wall & slab joints which shall be fixed to the substrate using suitable adhesive. The coating shall be applied @1.5Kg/sqm in two coats on the entire horizontal and up to 300mm above FFL on the vertical surface as per manufacturer's recommendation. The contractor to read the technical specification for detailed process of work and understand before quoting.				
	The system includes base preparation of cleaning, brushing and removal of flacky materials, grouting the porous area with cementitious grout, proper coving between slab and wall junctions and priming the surface with high moisture insensitive epoxy primer applied @ 150gms/Sqm, followed by application of water proofing coating. For Terrace Area. Make: M/s. Pidilite, M/s. Fosroc & M/s. Master Buildtech	Sqm	250		
	Total Rs.				

Note: 1. Rate inclusive of all approved material wastages, labour charges, GST and other Govt applicable levies and taxes.

2. Water and electricity will be provided by department free of cost.

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

4. Damage to any existing installations/ ICTS property shall be restored back to its original status with out any extra cost to department.

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

6. All cuttings, chippings proper machines and tools shall be used.

7. Work shall be carried out First and Second floor level.

8. Makes of various materials to be used by contractors will be according to the list of approved makes given. No other makes will be used by the contractor.

9. Contractor will first get the sample approved by ICTS Engineer before procuring the material in bulk and incorporating it in the work.

10. Contractor will arrange all safety measures and Covid -19 guidelines at his own cost and will take all safety measures. If it is observed that work is proceeding without adequate safety precautions, work may be stopped by the Engineer. And in such cases, contractors will be solely responsible for delay and its consequences thereof.

11. Electrical power will be made available; Contractor shall make his own arrangement to take it further to the workplace. Contractor shall take all necessary safety precautions in carrying electrical power as the campus has a residential colony and kids play around.

(Rupees

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Contractor's Seal with Signature