

OT & TREADMILL AREA EXTENSION WORK

Area of New Construction on the West (OT EXTENSION)	1931	Sqft	
Area of New Construction on the East (TREADMILL AREA)	708	Sqft	
TOTAL AREA OF NEW CONSTRUCTION	2639	Sqft	

Sr.No.	Description of Work	Qty	Unit	Rate	Amount
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1.00 EARTH WORK

1.01	Dismantling the existing Wall of Stables for New wall construction and leveling and removing the debris out of site , complete	LS			
	Excavation for foundation trenches, isolated footings, basement etc.,				
1.02	Excavation For Foundation Trenches including dewatering if required, and transporting the earth.	4800	Cft		
1.03	Same as above For Column Footings	152	Cft		
1.04	Refilling in foundation trenches footings in plinth behind retaining walls and under floors etc., for making up ground level with selected earth, deposited in layers not exceeding 30 cm, compacted thickness including watering and consolidation to required levels, complete as directed and specified	2900	Cft		
1.05	Carting away surplus earth from site outside including Transport, loading and unloading etc. complete as directed.	1900	Cft		
EARTH WORK TOTAL					

NOTES FOR PLAIN AND REINFORCED CEMENT CONCRETE AND FORMWORK.

Unless otherwise specified, the following will apply for all items of plain and reinforced cement, concrete and formwork. Rates quoted

- a. All materials, labour & all formwork, mould, centering and shuttering.
- b. Adequate protection to edges and corners from damage during construction.
- c. Work either straight, curved, sloping, plain or tapered.
- d. Keeping the work well watered for at least 10 days after casting
- e. Roughening and hacking concrete surface where required after removal of centering or shuttering to receive plaster.
- f. Work on all floors at all levels, locations, conditions and situations
- g. Building in and placing in position any inserts supplied.
- h. Machine mixing and consolidation using vibrators of approved type.
- I. Coarse graded sand shall be used for all concrete works.
- j. Machine crushed coarse aggregate shall be of hard broken granite or Basalt or trap of sizes specified
- k. Deshuttering and cleaning.
- l. Test cubes and testing charges as specified
- m. Use of weigh batching equipment for design mix concrete
- n. Cost of all frame work includes vertical supports of wood, MS props, MS Spans, MS shuttering sheets, wooden planks, runners,
- o. Cost of all supports, struts, braces, ties, wedges, poles or other suitable arrangements to support the formwork.
- p. Cost of making and erecting formwork, scaffolding, staging, deshuttering, transporting, etc.
- q. Cost of approved shuttering oil and labour and consumable like wires, nails, ropes, clamps, bolts or other items to hold the sheathing together.
- r. Providing cutouts wherever necessary as indicated in the drawings
- s. S. Working scaffolds, gangways, ladders and similar items.
- t. Filletting to form stop – chamfered edge or splayed external angle, not exceeding 20 mm wide to beams, columns and the like.
- u. Splayed edges, notching allowance for overlaps, passing at angles, sheathing battens, strutting, bolting, nailing, wedging, casing,
- v. Bracing the scaffoldings and staging at every 1.5 mtrs in both the directions.
- w. Providing adequate no. of props at suitable spacing to support the weight of wet concrete, workers during pouring, vibration due to equipment till formwork is removed.
- x. Unless otherwise specified the material for formwork for different parts shall be as follows.

PART	TYPE OF FORMWORK
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1	Foundations	MS Sheet and/or wooden planks and runners.
2	Pedestals, columns, beam, lintels, pergolas, walls, facias drop and fins	Formwork with plywood lining
3	Slabs and flat slabs of all type	Formwork with plywood lining
4	Staircase, lofts, cover slabs, coping chajja and platforms	Formwork with MS Sheet and/or wooden planks
5	Pre cast concrete panels	Formwork with plywood lining.

2.00 PLAIN CEMENT CONCRETE

	Description of Work	Qty	Unit	Rate	Amount
2.01	Providing and laying PCC 1:3:6 bed for foundation wall trenches and column footings etc., using 40mm and down gauge graded granite stone aggregate including machine mixing, tamping, scaffolding etc., complete	630	Cft		
2.02	Providing and laying 4" PCC 1:4:8 bed below flooring using 40 mm and down gauge graded granite stone aggregate, including machine, mixing, tamping, curing, shuttering, scaffolding etc., complete	720	Cft		
2.03	Providing and laying PCC 1:3:6 In damp proof course using 20 mm and down gauge graded granite stone aggregate, including machine, mixing, tamping, curing, shuttering, plastering all the exposed faces in cement mortar 1:4 etc., complete	103	Cft		
2.04	Providing and laying PCC 1:3:6 in Flagging and pavement 3" thk using 20 mm and down gauge graded granite stone aggregate, including machine, mixing, curing, shuttering, etc., complete	982	Sqft		
PLAIN CEMENT CONCRETE TOTAL					

IMPORTANT NOTES ON REINFORCED CEMENT CONCRETE (RCC)

- a. While quoting for structural concrete work contractors are particularly advised to study the relevant drawings carefully before quoting.
- b. The successful tendered shall maintain at site, cube testing machine in good working order, sieves slump cones, graduated cylinder and weight scales for material testing, providing and laying cement concrete conforming to specified grade (IS 456-1978) with 20 mm and down graded aggregate of granite basalt or trap, as per specifications excluding the cost of steel reinforcement but including the cost of formwork, formwork support scaffolding for all heights as per dry compacting with vibrators curing, stripping formwork, making the exposed surface to receive plaster wherever necessary etc. complete as per drawing and specifications for the following items.
- c. All concrete used for reinforced concrete work (structural concrete) shall be "controlled concrete" and the use of weigh batching is essential.
- d. Minimum cement content for 43 grade cement (use only up to M-250 mix concrete) for controlled concrete shall be as follows:
 - i) M-150-290 Kgs/CUM (1:2:4)
 - ii) M-200-320 Kgs/CUM (1:11/2:3)
 - iii) M-250-350 Kgs/CUM (1:1:2)
- e. Minimum cement content for 52 grade cement (above M-250 mix) for controlled concrete shall be as follows :
 - i) M-300-365 Kgs/CUM
 - ii) M-350-385 Kgs/CUM
- f. The rates shall be including the super plasticizers used to get required strength of cement concrete

3.00 REINFORCED CEMENT CONCRETE

	Description of Work	Qty	Unit	Rate	Amount
3.01	M-20 concrete for Column Footing	19	Cft		
3.02	M-20 concrete for columns	11.25	Cft		
3.03	M-20 concrete for lintels	33.75	Cft		
3.04	M-20 concrete for Beams	107	Cft		
3.05	M-20 for Roof slabs	1050	Cft		
3.06	M-15 concrete for sloping slabs/ parapet of 100mm thickness	170	Sft		
REINFORCED CEMENT CONCRETE TOTAL					

NOTES FOR STONE, BRICK AND CONCRETE BLOCK MASONRY WORK

Unless otherwise specified, the rates quoted for all items shall include the cost of the following

- A. All scaffolding, ladders, platforms, staging & plant required in the execution of work to any height and depth.
- B. Hacking & roughening of concrete or other surface in contact with masonry for bondage
- C. Racking out joints to 12mm depth either for plastering or pointing
- D. Leveling up & preparing top of masonry for Damp proof course.
- E. Building in holdfasts, bolts and such other inserts
- F. Keeping the work well wetted for two weeks
- G. Work at all heights, levels, depths, unless otherwise specified
- H. Providing through bond stones at every 2.0M apart in each coarse in stone masonry.
- I. All works curved or straight
- J. Soaking of bricks & concrete blocks in water for minimum 12 hrs
- K. Cost of all materials, transport to site and labour
- L. Leaving holes for pipes or similar items
- M. Building in ends of beams, joints, slabs, lintels, sills, trusses, etc
- N. Stones used shall be granite, trap and/or basalt unless otherwise specified.

4.00 STONE MASONRY

	Description of work	Qty	Unit	Rate	Amount
4.01	Providing and constructing Size stone masonry in Foundation in Cement mortar 1:8 using granite stones, edges of stones hammer dressed, in courses not less than 200 mm high though bond stones every 1.5m interval in each course including curing etc., complete.	2110	Cft		

5.00 BRICK MASONRY

	Description of Work	Qty	Unit	Rate	Amount
5.01	Providing and constructing 230 mm thick Burnt Brick masonry walls in CM 1:6 including necessary scaffolding, curing, hacking of concrete surfaces and packing of the space between column / beam / roof / slab/walls and filling of voids created by chasing of walls for water supply & electrical works with appropriate material as directed etc., complete	2170	Cft		

NOTES FOR PLASTERING, POINTING AND PAINTING

Unless otherwise specified rate quoted for all items shall include the cost of the following

- A. Coat of all materials and labour
- B. Hacking or scarifying concrete surfaces to be plastered or rendered
- C. Preparation of surfaces by raking out joints, wetting the surface etc
- D. Providing grooves at the junction of masonry and concrete members wherever different materials are connected and in the pattern as shown in the drawing or as directed by the Architects
- E. Work at all heights, levels and situations
- F. Providing drip moulds wherever necessary as directed
- G. Washing floors, cleaning glass and letting premises clean and tidy
- H. Curing for at least 10days
- I. Providing necessary scaffolding, ladder, platform for any height & depth and removing.
- J. Providing chicken mesh 24G, 400mm width at junctions of concrete and masonry, double folded including fixing it in position.
- K. Neat finishing of junctions of plaster & skirting
- L. Screening and washing approved fine aggregates Rough Plaster in Ext / Int walls
- M. Preparing surfaces for painting by cleaning and removing all dusts, dead mortar etc
- N. Providing all materials like paints, brushes & other materials & application of paint according to specifications & manufacturer's instructions.
- O. Making surfaces even by filling in putty, rubbing with sand paper and making good all depressions.
- P. Providing polythene sheets and protecting adjacent equipment, furniture, floors etc
- Q. Curing, protecting the painted surface and thoroughly cleaning the premises (Floor, doors, windows, glass panes and other surfaces after painting).

6.00 PLASTERING

Note : The rate quoted shall include for providing Drip moulds and external borders round openings / windows for projected concrete surfaces, providing and fixing chicken mesh 300mm wide at junctions of RCC slabs, beams, columns, walls with necessary centering, scaffolding, curing for the specified period, at all levels etc, complete.

	Description of Work	Qty	Unit	Rate	Amount
6.01	Preparing of ceiling and other RCC surfaces and plastering in Cement mortar 1:4 12 mm thick applied in one coat including finishing smooth with a thin coat of lime rendering etc., complete	2407	Sqft		
6.02	Preparing and plastering the internal surface of walls with Cement mortar 1:6 12 mm thick average including a coat of lime rendering etc., complete	4068	Sqft		
6.03	Preparing and plastering the external surface of walls with Cement mortar 1:6, 12 mm thick average including a coat of lime rendering etc., complete	1870	Sqft		
6.04	Plaster on both side of sloping Roof	340	Sqft		
PLASTERING TOTAL					

7.00 PAINTING

	Description of work	Qty	Unit	Rate	Amount
7.01	Preparing the surfaces of plastered ceiling and applying two coats of approved colour and shade Oil Bound Distemper of Approved make over a coat of primer including putty at all levels including scaffolding, curing etc, complete.	2407	Sqft		
7.02	Preparing the surfaces of plastered Internal Walls and RCC surfaces and applying two coats of approved colour and shade Plastic Emulsion Paint of Approved make over a coat of primer including putty at all levels including scaffolding, curing etc, complete.	4323	Sqft		
7.03	Preparing the external plastered surfaces of Walls and applying two coats of approved colour and shade of approved make Exterior Emulsion Weather coating as per Manufactures specifications at all levels including scaffolding, curing etc., complete.	1870	Sqft		
7.04	Preparing all the Wooden surfaces of Doors and Windows and applying two coats of approved colour, shade and make Synthetic Enamel Paint over a coat of primer including putty work at all levels etc, complete.(Flat area mentioned)	288	Sqft		
PAINTING TOTAL					

8.00 FLOORING SKIRTING & DADO

	Description of work	Qty	Unit	Rate	Amount
8.01	Providing and laying 40 mm thick cement flooring in plain cement concrete 1:2:4 using 12 to 20 mm graded granite stone aggregate and top plastered rough with a floating coat of cement as directed including laid in panels to required pattern and levels all as per drawing and directions on South West side access road and North West exit road.	1826	Sqft		
8.02	Same as above for the covered areas	2160	Sqft		
TOTAL CEMENT FLOORING					

9.00 DOORS WINDOWS VENTILATORS

Note: All dimensions are finished sizes only. Item Rate to include Bamboo lugs/pins for all joinery work in shutters. Item Rate to include fixing all fixtures/fitings as selected by the Client and approved by Architect

	Description of work	Qty	Unit	Rate	Amount
9.01	Providing and fixing OT to Anesthesia Room double shutter door for opening size of 8' x 12' with one side padding and full fixtures complete	96	Sqft		
9.02	Providing and fixing 8' x 8' wooden door in solidwood frame oc 150 x 100 and flush double shutters and one side padding and fixtures complete	64	Sqft		
9.03	Providing and fixing 2 nos double shutter wodden doors in solidwood frame of 150 x 100 with all fixtures to cleing system	128	Sqft		
9.04	Providing and fixing Glazed wall with AL/MS Framework and 8mm glass and 8mm Glass doors as shown in Drawings				

a	For new construction Area	900	Sqft		
b	For Renovated Area	330	Sqft		
	TOTAL				

10.00 STEEL REINFORCEMENT

10.01	Fabricating and tying in position steel reinforcement conforming to S-434 (latest edition) for R.C.C works, including cost of binding wire, lifting, handling and all lift and lead charges (laps and chairs specified on structural drawings and columns shall be measured for payment)	2.4	MT		
10.02	STEEL REQUIREMENT FOR HOISTING SYSTEM				
	Cs ISMB200 , 2nos of 3.66 m	186	Kg		
	P1 10 mm thk plate(200x100) 2 nos	3.2	Kg		
	P2 12mm thk plate(300x200) 2nos	11.4	Kg		
	G ISMB200 13.1 m	333	Kg		
	W 10mm thk plate (225x100) 4 nos	10.6	Kg		
	TOTAL STRUCTURAL STEEL	544.2	Kg		

NOTES FOR STRUCTURAL STEEL WORK:

Unless otherwise specified the rates quoted for all items shall include the cost of the following :

- A. Receiving all materials supplied by the Employer unloading and storing.
- B. Straightening cutting, fabricating, conveying to work site, hoisting and fixing in position.
- C. The cost of all materials and labour.
- D. Work at all heights, levels and situations.
- E. Providing necessary scaffolding, staging, platforms, ladders, etc., and removing.
- F. Hire charges for necessary hoisting equipment like crane, chain pulley blocks, derricks, winches, screw jacks, hooks, wire ropes, etc.
- G. All necessary fixtures like bolts, washers and nuts.
- H. Approved quality welding electrodes like "Philips", "Advani Orlikon" makes or Approved equivalent.
- I. Welding at all heights levels, conditions and situations.
- J. Cost of safety belts, goggles, helmets and other necessary safety equipment.
- K. Preparing the surfaces for painting and for welding.
- L. Painting with two coats of primer and top coats wherever specified

11.00 WATER PROOFING

11.01	Providing and laying integral cement based/acrylic based chemical water proofing treatment over roof slab by leaning the surface and plastering it in CM 1 :4 (20 mm thick) admixed with water proof compound including rounding off the joints between slab and wall/beam and necessary grouting required with manufacturer's guarantee of 10 years for necessary curing etc., complete as per detailed specifications.	2520	Sqft		
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Unless otherwise specified the rates quoted for all items shall include the cost of the following :

- A. Cost of all materials and labour.
- B. Work at all heights, levels, conditions and situations.
- C. Providing necessary scaffolding, staging, platforms, ladders, and removing.
- D. Receiving all materials supplied by the Employer, unloading, storing, conveying to work site and fixing in position.
- E. Cost of hiring necessary equipment where called for.

13.00 ELECTRICAL WORKS

	Description of work	Qty	Unit	Rate	Amount
13.01	Providing quality concealed conduits for wiring with proper junction boxes and metal/ PVC boxes for control panels and modular switches, standard wires and agreed upon switches and fittings all as per drawings and specification	LS based on BUA			

14.00 PLUMBING WORKS

14.01	Providing cpvc water supply pipes ,100mm and 50mm PVC pipes of approved make for disposal of soil waste and grey waste, providing necessary inspection chambers and covers , gratings etc necessary and connecting to the mains. Providing plumbing points in Pantry, Kitchen, Toilets , Srub Station ,Autoclave with all standard fittings and fixtures.	LS based on BUA				
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15.00 MISCELLANEOUS WORKS

15.01	Providing and fixing Counter slab for Wash Hand Basin with Mirror polished SingleGranite slab 20 mm thick of approved quality laid on a bed of Cement mortar 1:4, 12 mm thick average over RCC counter 50 mm thick, sizes as directed, edges neatly rounded off and polished, cutting opening for WHB etc., complete all as per Drawings and Directions.					
15.02	Providing Sintex/Aquatec/Kaveri Overhead Water Tank					

BRAND SPECIFICATIONS

1	RCC Work :	BRAND
	a> Cement - Ultratech ,Zuari & ACC 43 Grade & 53 Grade wherever required	
	b> Steel - ISI TMT Make SAIL, JSW ,Kairali or INDUS	
	c> Sand - Good Quality M. Sand.	
	d> Jelly - Hard Stone, sharp edge cut Jelly	
2	BURNT BRICKS	
	Red Bricks - Made outgood clay and sand, well compressed & with proper burning	
3	PLASTER:	
	By Preparing Rough finish surface. Material & specification as per Architect details .	
4	FLOORING:	
	a> Ceramic Tiles - ISI Brand design & colour as per selection of Owner & Architect	
	b> Vitrified Tiles - -----do-----	
5	PLUMBING :	
	Aashirwad /Supreme/Hycount make UPVC & CPVC wherever required	
6	ELECTRICAL :	
	a> Arihant /Astral Pipes ,Finolex Cables	
	b> Havells/Legrand Metal Boxes	
7	PAINT:	
	a> Internal - Asian /Berger . As per owner & Architect selection.	
	b> External- Asian Apex or Berger weather coat smooth or ICI weather Sheild. As	
8	WOOD :	
	a> Solid Wood -well seasoned wood	
	b> ISI Guaranteed Water Proof, Resistant to infestation & Decay. For Bathroom doors	
9	All Doors, Windows, Ventilator,Staircase Railing, Balcony Grill & Gate ETC. As per Architect Design & Specification.	
10	HARDWARE FITTINGS:	
	ISI Marked Standard Company , Heavy, Brass, Powder Coated & Rust Proof Wherever Nesseccary. As per owners & Architect selection.	
11	BATHROOM FITTINGS	
	a> Jaguar Make.	
	b> Wash Basin, Commode , etc. Hindware or ISI Marked standard company as per Owner's & Architect Selection	

TOTAL	-
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TOTAL New Area to be Constructed	SQFT	2,639
Cost per Sqft		