



Alteration for JIPMER Trauma Care Centre

BILL OF QUANTITIES

Sl. No.	Description	Unit	Total Quantity	Rate	Amount
	MASONRY WORK				
	230MM THICK BRICK WORK				
1	Providing and constructing 230 mm thk brick work conforming to IS:2212-1962 with first class quality table moulded chamber burnt bricks corresponding to class designation 50, with a minimum crushing strength of 50kg / sq.cm in cement mortar 1:6 for superstructure at all levels, including scaffolding if any, raking out joints, curing etc., all materials & labour complete.	Cum	72		
	115MM THICK BRICKWORK				
2	Providing and constructing 115 mm thick brick wall conforming to IS: 2212-1962 at all levels with approved first class quality table moulded chamber burnt bricks corresponding to class designation 50 with a minimum crushing strength of 50 kg/sq.cm in cement mortar 1:4 in superstructure at all levels including supplying and embedding in cement mortar 2 nos. 6 mm dia MS reinforcement bars as hoop reinforcement at every 3rd course including scaffolding, if any, raking out joints and curing etc., all materials & labour complete.	Sqm	245		
3	75MM THICK BRICKWORK : Providing and constructing 75 mm thick brick wall conforming to BIS: 1077 at all levels with approved Second class quality clay burnt bricks corresponding to class designation 50 with a minimum crushing strength of 35 kg/sq.cm in cement mortar 1:3 in superstructure at all levels (including scaffolding if any raking out joints curing etc.,) rate shall include all materials & labour complete.	Sqm	6		
	G.I. CHICKEN MESH				
4	Providing and fixing G.I chicken mesh (Single folded) 24 Gauge, 12 mm size to a width of 150 mm at the junction of masonry and concrete works including tying in position with suitable clamps/screws, etc. and all materials and labour complete.	Sqm	75		
	PLASTERING				
	EXTERNAL PLASTERING				
5	providing & applying of 18mm thk plaster for external surfaces conforming to IS:1661 with base coat having the following Mix & thickness adding with water proofing compound of approved make in the ratio of 1Kg for a bag of cement as per manufacturer's specification and finishing coat of mix and thickness specified below after roughening the surface of first coat in green condition with wire brush and clearing of loose particles with sponge finish (washed sand finish) all and clearing of loose particles with sponge finish (washed sand finish) all complete as per specification and as directed. Rate shall include for scaffolding as necessary and curing, complete and as directed. Base coat of 12 mm thick in C.M 1:5 with water proofing compound at 1kg per 50kg of cement and finishing coat of 6mm thick in C.M 1:3. with water proofing compound.	Sqm	260		
	INTERNAL PLASTERING				
6	Plastering of internal walls conforming to IS: 1661 with the mix and thickness specified below, with a neat floating coat of cement for smooth finish according to specifications. Rate shall include for scaffolding, as necessary and curing. Cement mortar 1:6 12mm thick	Sqm	930		



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	PAINTING				
	EXTERIOR GRADE ACRYLIC EMULSION PAINT				
7	Providing three coats (first 2 coats with brush & final coat with roller) of Exterior grade Acrylic emulsion paint shall conform to IS:5411 (part 2)1972 to all external walls, of approved colour over a coat of water based primer / Alkali resistant primer including preparation of surface by thorough cleaning and wetting before painting and curing as per manufacturers specifications and as directed.	Sqm	260		
	OIL BOUND DISTEMPER				
8	Providing three coats of first quality oil bound distemper conforming to IS: 428 - 1969 of approved colour to all internal plastered walls over a coat of approved primer cement based / distemper / Alkali resistant primer including preparation of surface through cleaning and wetting and applying ready made putty 2mm to 3 mm thick of approved brand as per manufacturer's specification fully to give a smooth and even surface before and subsequent application and making good all small holes of nails, open joints and minor defects of every kind after application of priming coat, all as per specification and as directed.	Sqm	1445		
	POLYURETHANE PAINT				
9	Providing and applying three coats of polyurethane paint of desired shade, of approved make on all internal wall surfaces wherever required at all heights to give an even and uniform shade applied over a coat of primer and ready made putty of approved brand as per manufacturer specification fully to give a smooth and even surface including thoroughly brushing the surface free from water / mortar dropping and other foreign matter and sand papered smooth, complete per manufacturers specifications and as directed. for walls	Sqm	210		
	SYNTHETIC ENAMEL PAINT				
10	Providing and applying three coats of Glossy / Flat/ Pearl /Lustier / Matt enamel paint conforming to IS : 2932 - 1964 of desired shade, on internal wall surfaces wherever required at all heights to give an even and uniform shade, applied over a coat of primer and ready made putty of approved brand as per manufacturer specification to give a smooth and even surface including thoroughly brushing the surface free from water / mortar dropping and other foreign matter and sand papered smooth, complete per manufacturers specifications and as directed.	Sqm	1050		
	FLOORING				
	VITRIFIED FLOOR TILES				
	With Flush Joints:				
11	Providing and laying with premium quality homogeneous Vitrified floor tiles of approved colour and size, 10 mm thick set in CM 1:4, 20 mm thick and pointing with "tile joint" filler compound of approved make, to matching shade as per manufacturers specification and as directed. Rate shall include for preparation of base surface, cleaning, acid wash etc.size 600mm x 600mm	Sqm	110		
	CERAMIC TILE FLOORING				
12	Providing and laying Ceramic tiles conforming to IS : 777 of 300mm x 300mm size 7 mm thk set in CM 1:4, 20 mm thick mortar bed and pointing the joints with "tile filler" compound of approved make, of matching colour as per manufacturers specification and as directed. Rate shall include for preparation of base surface, cleaning, work at levels and as directed.	Sqm	455		



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Sl. No.	Description	Unit	Total Quantity	Rate	Amount
13	Providing and laying Matt finish Ceramic tiles conforming to IS : 777 of 300mm x 300mm size 7 mm thk set in CM 1:4, 20 mm thick mortar bed and pointing the joints with "tile joint" filler compound of approved make, of matching colour as per manufacturers specification and as directed. Rate shall include for preparation of base surface, cleaning, work at levels and as directed.	Sqm	110		
	INTERLOCKING PAVER BLOCKS				
14	Providing and laying 60 mm thick interlocking paving blocks of approved quality,size, colour and make including preparing the subgrade by compacting the natural earth available on site using a 10 ton roller, vibratory plate compactor and preparing a sub base to a compacted thickness of 100 mm and providing a layer of 3 mm and down fine sand laid to a thickness of 50 mm and accurately screed and leveled and compacted to 38 mm in thickness and to required falls and slope.	Sqm	71		
	CEMENT CONCRETE SCREEDING				
15	Providing and laying Cement concrete Screeding of 25mm thickness using 12mm and down grade aggregates for bottom surfaces of vitrified tile & ceramic tile flooring area except toilet areas, all materials and labour complete	Sqm	110		
	SKIRTING & DADO				
	VITRIFIED TILES SKIRTING				
16	Providing and fixing of machine cut factory polished vitrified tile skirting over a backing of cement mortar of 12mm thk.C.M. 1:3 (1 part of cement and 3 part of sand) pointed neatly with 'tile filler' compound of approved make, of matching colour with flooring tile. Rate shall include for preparation of surface, chasing of wall and acid cleaning, edge chamfering and polishing. of size 600mm x 100mm	Rm	71		
	CERAMIC TILES				
	CERAMIC TILES DADO				
17	Providing and fixing of 200 x 300mm, 7mm thick pressed ceramic tile (conforming to IS:777) dado upto specified height over a backing of cement mortar over a backing of cement mortar of 12mm thk. C.M. 1:3 (1 part of cement and 3 part of sand) pointing the joints with "tile filler" compound of approved make, of matching colour of tile, properly cured and finished in all respects all materials and labour complete. Rate shall include for preparation of plastered surface, smooth joint, cleaning and acid wash etc., complete and as directed.	Sqm	105		
	TREADS, RISERS				
	IPS FINISH				
18	Providing and laying 40mm thk Indian Patent Stone flooring with cement concrete 1:2:4 with 10 mm and down aggregate for staircase treads and risers with rounded nosing and anti skid grooves for steps and finished smooth by using cement @ 2.20 kg/sqm including rounding of corners and applying a coat of cement slurry on base concrete after chipping and cleaning of surface etc., all material and labour complete. Treads of size - 300 X 1500 mm Riser of size - 150 X 1500 mm	sqm	5		
	WOODEN JOINERY				
	WOODEN FRAMED FULLY PANELLED DOOR				
	FRAME				



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Sl. No.	Description	Unit	Total Quantity	Rate	Amount
	Providing and fixing in position wooden frames 125 x 60 mm for doors including double grooves on both sides and single rebate for shutters, shaping, jointing, sand papering, applying a coat of bituminous paint on concealed surface, wood primer on exposed surfaces fixing in masonry / RCC by means of 300x25x6mm thk M.S hold fasts (Maximum vertical spacing 750mm) frames finished with two coats of synthetic enamel paint over a coat of primer, finishing etc., rate shall include all material and labour complete. Wooden frames with Treated Hardwood conforming to IS:4021				
	SHUTTER				
	Providing and fixing in position fully paneled Treated hard wood shutters for doors with top rail 100 x 40 mm bottom rails 200x40mm and 150x40mm lock rail and remaining intermediate rails 100x40mm and paint finish on both .The rate also includes necessary beading as per the drawing and heavy quality fixtures and fitting provided with best quality electroplating and polishing.				
19	single shutter With both sides marine ply finish of size				
	a) 900mm x 2100mm	Nos	5		
	b) 750mm x 2400mm	Nos	14		
	ALUMINIUM JOINERY				
	ALUMINIUM FRAMED PARTLY GLAZED PARTLY PANELLED DOOR				
20	Providing and fixing 20 microns anodised aluminium door partly glazed and partly paneled with extruded built up sections of wall thickness not less than 2.0mm conforming to IS:733 7 IS:1285 of approved make, joints mitered and joined with heavy duty aluminium pressure die cast cleats with fins to match the section of frames with 12 mm thk prelaminated three layer medium density (exterior grade) particle board grade I, type II conforming to IS 12823 bonded with phenol formaldehyde synthetic resin of approved brand and manufacturer and glazing with 5.5 mm thick glass fixed to shutter with aluminium snap beading and neoprene / PVC gaskets / C.P brass / stainless steel screws and fixed to wall with requisite rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with requisite PVC / neoprene felt / polysulphide sealant / silicon sealant etc., all complete including all hardwares of approved make unless otherwise specified as per architecture drawings.				
	Two equal shutters of size				
	a) 1500mm x 2100mm	sqm	8		
	Single shutter of size				
	b) 900mm x 2100mm	Nos	1		
	ALUMINIUM FRAMED FULLY PANELLED DOOR				
21	Providing and fixing 20 microns anodised aluminium door fully paneled with extruded built up sections of wall thickness not less than 2.0mm conforming to IS:733 & IS: 1285 of approved make, joints mitered and joined with heavy duty aluminium pressure die cast cleats with fins to match the section of frame with 12 mm thick prelaminated three layer medium density (exterior grade) particle board grade I, type II conforming to IS 12823 bonded with phenol formaldehyde synthetic resin of approved brand and manufacturer fixed to shutter with aluminium snap beading and neoprene / PVC gaskets / CP brass / stainless steel screws and fixed to wall with requisite rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with requisite PVC / neoprene felt / polysulphide sealant / silicone sealant etc., all complete including all necessary hadwares of approved make unless otherwise specified as per architecture drawings.				

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Sl. No.	Description	Unit	Total Quantity	Rate	Amount
	Two equal shutters of size				
	a) 1500mm x 2100mm	Nos	8		
	Single shutters of size				
	b) 1200mm x 2100mm	Nos	4		
	c) 900mm x 2100mm	Nos	15		
	ALUMINIUM FRAMED GLAZED SIDE-HUNG WINDOW				
22	Providing and fixing Anodised aluminium glazed window with extruded built up sections of wall thickness not less than 1.5mm conforming to IS:733 & IS:1285 of approved make with glass panel fixed to side-hung shutter with aluminium snap beading and neoprene/P.V.C. gaskets/ C.P.brass/ stainless steel screws and fixed to the wall with requisite rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top,bottom and sides with requisite P.V.C./neoprene felt/polysulphide sealant/silicone sealant including heavy duty handle cum locking arrangement etc., all complete as per architectural drawings and the directions of the engineers-in-charge. With 5.5mm thick glass 9) 1200mm x 1500mm	Nos	4		
	ALUMINIUM FRAMED GLAZED LOUVERED VENTILATOR				
23	Providing and fixing anodised aluminium framed ventilator with extruded built up sections of wall thickness not less than 1.5mm conforming to IS: 733 & IS: 1285 of approved make glazed with 4mm thick glass slats fixed with C.P.brass/ stainless steel screws and fixed to the wall with requisite rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom & sides with requisite P.V.C./ polysulphide sealant/ siliconesealant etc., including cup-pivots, all the corners having architrave etc.,all complete as per architectural drawings and the directions of the engineers-in-charge. of size 1) 600mm x 600mm	Nos	8		
	PARTITION WALL				
	ALUMINIUM PARTITION WITH FIXED GLAZING				
	ALUMINIUM PARTITION				
24	Providing and fixing Colour Anodised aluminium fully panelled Partition upto 900mm high with extruded built up sections of wall thickness not less than 2.0mm conforming to IS:733 7 IS:1285 of approved make, joints mitred and joined with heavy duty aluminium pressure die cast cleats with fins to match the section of frames with 12mm thk Prelaminated particle boards with aluminium snap beading and neoprene / PVC gaskets / C.P brass / stainless steel screws and fixed to wall with requisite rawl plugs and screws and fixed to wall with requisite rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with requisite PVC / neoprene felt / polysulphide sealant / silicon sealant etc., all complete	Sqm	35		
	FIXED GLAZING				
25	Providing and fixing 1800mm high Fixed glazing consisting of 8mm thk toughened glass fixed with aluminium partition below. Glazing shall be provided with necessary clamping and screws as required. Rate shall include all material and labour compete.	Sqm	60		
	MISCELLANEOUS				
	M.S.GRILL WORK				
26	Providing and fixing welded M.S. grills of size 12mm sq. bars to details as per drawing for windows / ventilator openings with necessary screws, bolts and fixed with necessary M.S. lugs embedded in masonry with C.C. 1:2:4 and finishing the surface neatly. Weight of grill shall be 12kg /sq.m. Rate shall include for two coats of first quality synthetic enamel paint over a coat of Zinc phosphate primer, necessary tools & plants, welding and consumables, etc. complete, as directed.	Sqm	10		

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Sl. No.	Description	Unit	Total Quantity	Rate	Amount
	COUNTER SLAB FINISH				
27	Providing best quality approved Jet black granite slab not less than 18 mm thick 600mm wide, machine cut and machine high pre-polished, set in C.M 1:4, 12 mm thick topped with white cement slurry (for surface of the bottom of the granite slab) finishing the joints with white cement slurry, rounded edge nosing, cutting, edge chamfering and polishing rough, medium, nice and acid wash and tin-oxide polish and as directed over RC Kitchen / Pantry platforms. Rate shall include for preparation of base surface & finished the surface, protection with gypsum/pop layer over plastic sheet and removing the same before handing over, work at all levels and as directed.	Sqm	7		
	URINAL PARTITION				
28	Providing and fixing urinal partitions with size of 450 x 1200mm made of 20mm thk granite slab fixed to the wall surface by stainless steel clamps and bolts with all necessary materials and labour complete.	Nos	1		
	PLINTH PROTECTION				
29	Providing and laying 600mm wide plinth protection all around the building using 75mm thk PCC 1:4:8 with 20mm and down stone aggregates, laid over firm compacted ground with all material and labour complete.	Sqm	26		
	G.I. COLOUR COATED SHEET WITH NECESSARY TRUSS SUPPORTS				
30	Supplying, Providing, fitting and fixing of pre coated G.I metal sheet at various elevations of 26 gauge thickness with enamel polyester painting of 1.0mil (25microns) for external and 0.5mil for internal face of approved manufacturer with approved profile fixing with self tapping screws, neoprene washers, sealing compound, including all labour, material, scaffolding, equipment, tools & tackles, handling, cutting, making openings and sealing, testing, preparation of fabrication drawings, etc. complete as per specifications, including of necessary purlins, rafters and trusses.supports, drawings and as directed	Sqm	145		
	RECEPTION COUNTER				
31	Providing and fixing Reception counter 900m high with Jet granite slab not less than 18 mm thick 600mm wide, 10 mm thick teak wood lipping all around drawers and cupboard with 18 mm thick commercial ply shutter finished in 1 mm thick approved shade laminate on all external surfaces & including intermediate shelves in 19mm thick commercial ply with laminate finish and all the exposed edges to be finished with PVC edge banding. Rate to include of necessary nos of approved make locks, Butt hinges for shutter, approved S.S.handles, magnetic ball-catch, ss fittings for glass etc complete as directed.	Sqm	9		
	TOTAL AMOUNT				