

JAWAHARLAL INSTITUTE OF POST GRADUATE MEDICAL EDUCATION AND RESEARCH

(AN INSTITUTE OF NATIONAL IMPORTANCE)

Tender Document for Civil, Finishing and
Electrical LT works at Lab Complex at
Karaikal, Puduchery

PART-IV

Price Bid

Tender no. HITES/IDS/16/11/JIPMER-II/KIK-08

June 2016

INFRASTRUCTURE DEVELOPMENT DIVISIO

CONTENTS

S.NO	ITEM	PAGE NO.
1.	Commercial Conditions	2-4
2.	Special Conditions	5
3.	Bill of Quantities	6

1 COMMERCIAL CONDITIONS

1.0.1 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.

1.0.2 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for the Civil, Finishing and Electrical LT Works at Lab Complex at Karaikal, Puduchery

1.0.3 .The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment, labour or any other reasons whatsoever during the contract period and valid extension on the case may be.

1.0.4 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

1.1 UNIT RATES

1.12 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

1.2 BRIEF DESCRIPTION OF PRICING

1.2.1. Unforeseen difficulties for which provision has not been made in the tender will in no way relieve the successful tenderer from the full execution of the work.

1.2.2 The price quoted shall be the final amount for this finished work.

1.2.3 The quoted price shall be inclusive of all taxes and duties whether payable by the contractor or to be deducted at source. This shall include those applicable among VAT, Sales Tax, Income Tax, Customs Duty, Excise Duty, Turnover Tax, Service Tax, Work Contract Tax, Octroi, Labour Welfare Cess or any other Taxes and Duties prevailing in respect of this contract. **ANY BID STATING THAT TAXES ARE EXTRA WILL BE SUMMARILY REJECTED.**

1.3 INCOME TAX

Any payment to the contractor as per contract will be made after deducting income tax as per the rules and regulations.

1.4 SALES TAX AND EXCISE DUTY

The tenderer shall clearly indicate sales tax, Excise and other duties as applicable in his offer for carrying out this work.

1.6. SUBMISSION OF BILL

1.6.1. The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer and the said measurement sheets shall be submitted by him with the relevant bill.

1.6.2. Within the above frame work of the terms of payment the contract's interim bills will have to be of a minimum value of Rs.50.00 Lakhs only.

1.7. EXTRA ITEMS

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing the job. Variation order in respect of such additional items and their quantities will be issued in writing by the employer.

1.7.1 All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.

1.7.2 All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

1.8. OVER TIME WORK

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Engineer-in-charge. He should also provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

1.8.1. The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision of the Engineer-in-charge on any point of dispute between the various parties shall be final and binding.

1.8.2. It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.

1.8.3. The contractor shall co-operate with other agencies appointed by the owners for the work to proceed smoothly with the least possible delay and to the satisfaction of the owners, architects and the consultants.

1.8.4. The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purpose

2. SPECIAL CONDITIONS

2.1. EXECUTION OF WORK

- 2.1.1. The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Engineer-in-charge from time to time is to be carried out and completed in all parts to the entire satisfaction of the Employer. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

2.2. CERTIFICATE OF COMPLETION

- 2.2.1 The contractor shall intimate to the Engineer-in-charge in writing as and when the works are completed and put into beneficial use in order to enable the consultants to check certify to the owners to take over the plants.
- 2.2.2 The work shall not be considered as completed and put into beneficial use until the consultants have certified in writing that the same has been completed and put into beneficial use.
- 2.2.3 The defects liability period shall commence from date of such completion or any specific date mentioned therein.

THE ABSTRACT OF BILL OF QUANTITIES IN THE PRICE BID SHALL BE INVARIABLY FILLED. THOSE WHO BIDDERS DO NOT FILL WILL BE NON-RESPONSIVE AND WILL BE DISQUALIFIED FROM EVALUATION AND WILL BE TREATED AS TECHNICALLY NOT QUALIFIED.

**ALL ROWS SHALL BE FILLED, THIS IS MANDATORY
(IF NIL OR NA, THAT MAY ALSO BE SHOWN)**

BILL OF QUANTITIES

ABSTRACT

Sl No	Name of work	Amount in Rs
1	Part I: GNM 2nd Floor Civil - Brick work and plastering	
2	Part II: GNM 2nd Floor Finishing works	
3	Part III: GNM Civil - Painting Works (Ground and First floor)	
4	Part IV: GNM Civil - False ceiling, Tile flooring, Joinery (First and Second floor)	
5	Part V: GNM Electrical First floor LT	
6	Part VI: GNM Electrical Second Floor LT	
7	Part VII: GNM Water Proofing	
8	Part VIII: GNM Gate, Canopy and Road works	
9	Part IX: GNM common facility works	
	Service tax component to be paid by the bidder	
	Service tax component to be directly paid by the HITES in case the bidder is a Proprietary firm	
	GRAND TOTAL	

Project: JIPMER II at Karaikal						
Construction of 2nd Floor at GNM College						
PART-I: Civil - Brick work and Plastering						
Sl n o	DSR item ref no	Item Description	Unit	Quant ity	Rate in figures & works (in Rs.)	Amount in Rs.
		I. Brick Work				
1	Deriv ed 6.4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5 in superstructure above plinth level up to floor V level in all shapes and sizes in : 6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	555.00		
		II. Plastering				
2	13.8.2	Providing and applying 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	sqm	1510.00		
3	13.7.2	Providing and applying 12 mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (1 cement : 4 fine sand)	sqm	2340.00		
4	13.16.1	Providing and applying 6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	sqm	1720.00		
5	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	m	380.00		
		Total Amount				

Project: JIPMER II at Karaikal						
Construction of 2nd Floor at GNM College						
Part II: Civil - Finishing works including staircase railing						
Sl n o	DSR item ref no	Item Description	Unit	Quantit y	Rate in figures & words (in Rs.)	Amount in Rs.
		I. Doors and Windows				
1	PSR 9.1.1B	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position - Burma Teak wood	cum	1.00		
2	PSR 9.5.1.1 B	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately. - Burma Teak wood - 35mm thick shutter	sqm	50.00		
3	PSR 9.14	Extra for providing ISI marked stainless steel butt hinges instead of black enamelled M.S. butt hinges with necessary Screws. (Shutter area to be measured)	sqm	50.00		
4	13.68.1	French spirit polishing: Two or more coats on new works including a coat of wood filler	sqm	100.00		
5	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	each	80.00		

6	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	each	40.00		
7	9.97.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	each	80.00		
8	9.92.1	Providing and fixing chromium plated brass handles with necessary screws etc. complete: 125 mm	each	40.00		
9	9.143	Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections , of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm) , corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.	m	70.00		

10	9.142.2	<p>35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge. Decorative finish (wood grained finish)</p>	sqm	30.00		
----	---------	---	-----	-------	--	--

11	21.1.1.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling to be paid for separately): Powder coated aluminium (minimum thickness of powder coating 50 micron) (HINDALCO/ JINDAL)	kg	1200.00		
12	21.1.2.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber/ neoprene gasket required (All fittings included) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	800.00		
13	21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of	sqm	150.00		

		engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.5 mm thickness				
14	21.16.2	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer in-charge. Powder coated minimum thickness 50 micron aluminium	each	40.00		
15	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	20.00		
16	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	each	40.00		
17	9.92.1	Providing and fixing chromium plated brass handles with necessary screws etc. complete: 125 mm	each	20.00		
18	21.8.1	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	m	320.00		
		II . Steel Work with painting				
19	9.48.2	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc.	kg	2595.00		

		including priming coat with approved steel primer all complete. Fixed to openings/ wooden frames with rawl plugs screws etc				
20	13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work	sqm	75.00		
21	10.28	Providing and fixing stainless steel (Grade 316) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	1415.00		
		Total Amount				

Project: JIPMER II at Karaikal						
Construction of GNM College						
Part III: Civil - Painting Works						
Sl n o	DSR item ref no	Item Description	Unit	Quant ity	Rate in figures & words (in Rs.)	Amount in Rs.
1	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	7425		
2	13.43 .1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	sqm	7425		
3	13.83 .2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	sqm	7425		
4	13.47 .1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior	sqm	2275		

		primer applied @ 2.20 kg/ 10 sqm)				
		Total Amount				

Project: JIPMER II at Karaikal						
Construction of GNM College (First & Second Floors)						
Part IV: Civil - False Ceiling, Tiling & Doors						
Sl no	DS R item ref	Item Description	Unit	Quantity	Rate in figures & words (in Rs.)	Amount in Rs.

	no					
		I. False ceiling				
1A	12.5	<p>Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/ cosmos/ Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls/ partitions on a Perimeter wall angle pre-coated steel of size (24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm</p>				

		interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture (Spintone/ Cosmos/ hexa) in the grid,				
		including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, noncombustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/m 0 KC	sqm	2430		

1B	12.4 5.2	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval,</p>		0		
----	-------------	---	--	---	--	--

		including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	sqm	303		
		II. Tiling/ Granite Works				
2	8.2. 2.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing,	sqm	183		

		curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Area of slab upto 0.50 sqm				
3	8.2. 2.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	sqm	43		
4	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	30		
5	8.12	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement	sqm	0		

		<p>mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineerin-Charge:</p> <p>a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.</p>				
6	11.4 1.2	<p>Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm</p>	sqm	1666		
7	11.4 6.2	<p>Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.</p>	sqm	110		

8	PSR 11.3 6C	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture of approved make in all colours, shades of size 300 x 600 mm in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm. Including pointing in white cement mixed with pigment of matching shade complete. - size 300x600mm	sqm	87		
9	11.4 0	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete	sqm	87		
10	8.10 .2	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-	sqm	3.4		

		charge and finished smooth.				
		III. Doors				
11	PSR 9.5. 1.1B	Providing and fixing panelled or panelled and glazed shutters for doors , windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately. - Burma Teak wood - 35mm thick shutter	sqm	96		
12	PSR 9.14	Extra for providing ISI marked stainless steel buitt hinges instead of black enamelled M.S. butt hinges with necessary Screws. (Shutter area to be measured)	sqm	123		
13	13.6 8.1	French spirit polishing : Two or more coats on new works including a coat of wood filler	sqm	190		
14	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	each	63		

15	9.97 .1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	each	123		
16	9.92 .1	Providing and fixing chromium plated brass handles with necessary screws etc. complete: 125 mm	each	63		
17	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	33		
		Total Amount				

Project: JIPMER II at Karaikal						
Construction of GNM College						
Part V: Electrical LT works 1st Floor						
Sl no	DSR item ref no	Item Description	Unit	Quantity	Rate in figures & words (in Rs.)	Amount in Rs.
		A. LT Wiring				

1.1	1.10. 3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Each	208		
1.2	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Each	4		
1.3		Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface medium class PVC conduit as required.				
1.3. 1	1.14. 1	2 x 1.5 sq.mm + 1 x 1.5 sq.mm earth wire	m	840		
1.3. 2	1.14. 2	2 x 2.5 sq.mm + 1 x 2.5 sq mm earth wire	m	1760		
1.3. 3	1.14. 3	2 x 4.0 sq.mm + 1 x 4.0 sq mm earth wire	m	1450		

1.3. 4	1.14. 4	2 x 6.0 sq. mm + 1 x 6.0 sq. mm earth wire	m	180		
1.4	1.15. 3	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed PVC conduit including dismantling as required.	m	42		
1.5	1.17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in existing surface/ recessed steel/ PVC as required				
1.5. 1	1.17. 3	3 x 1.5 sq.mm	m	220		
1.5. 2	1.17. 12	3 x 2.5 sq.mm	m	460		
1.5. 3	1.17. 21	3 x 4.0 sq.mm	m	280		
1.5. 4	1.17. 30	3 x 6.0 sq.mm	m	40		
1.6	1.18. 2	Supplying and drawing 2 pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed	m	580		

		steel/ PVC conduit as required.				
1.7	1.19	Supplying and drawing co-axial TV cable RG-6 grade 0.7mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel / PVC conduit as required.	m	80		
1.8		Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
1.8.1	1.21.1	20 mm	m	850		
1.8.2	1.21.2	25 mm	m	920		
1.8.3	1.21.3	32 mm	m	100		
1.9	1.22.12	Supplying and fixing metal box of 200 x 250 x 100 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.	Each	12		

1.10		Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
1.10 .1	1.24. 1	5/6A switch	Each	30		
1.10 .2	1.24. 2	2way 5/6A switch	Each	6		
1.10 .3	1.24. 3	15/16A switch	Each	12		
1.10 .4	1.24. 4	3 pin 5/6A socket outlet	Each	45		
1.10 .5	1.24. 5	6 pin 15/16A socket outlet	Each	10		
1.10 .6	1.24. 6	Telephone socket outlet	Each	15		
1.10 .7	1.24. 7	TV antenna socket outlet	Each	1		
1.11	1.25	Supplying and fixing stepped type electronic fan regulator-modular on the existing modular plate switch box including	Each	42		

		connections but excluding modular plate etc. as required.				
1.12	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	70		
1.13		Supplying and fixing following size / modules, GI box alongwith modular base & cover plate for modular switches in recess / surface etc as required.				
1.13 .1	1.27. 1	1 or 2 module	Each	35		
1.13 .2	1.27. 2	3 module	Each	10		
1.13 .3	1.27. 3	4 module	Each	12		
1.13 .4	1.27. 4	6 module	Each	8		
1.13 .5	1.27. 5	8 module	Each	4		
1.13 .6	1.27. 6	12 module	Each	6		

1.14	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc as required				
1.14 .1	1.28. 1	1 or 2 module	Each	20		
1.14 .2	1.28. 2	3 module	Each	10		
1.14 .3	1.28. 3	4 module	Each	16		
1.14 .4	1.28. 4	6 module	Each	8		
1.14 .5	1.28. 5	8 module	Each	8		
1.14 .6	1.28. 6	12 module	Each	4		
1.15	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	Each	52		
1.16	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing	Each	30		

		and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.				
1.17	1.33	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	42		
1.18	1.41	Installation, testing and commissioning of prewired, fluorescent fittings / compact fluorescent fitting / LED of all types, complete with all accessories and tube etc. directly on ceiling /wall, including connections with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	55		
1.19	1.44	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	42		
1.20	1.48	Supplying and fixing extra conduit down rod of 20 cm length GI pipe 15 mm dia, heavy guage including painting etc as required.(Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored).	Each	84		

1.21		Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
1.21.1	1.50.1	Upto 450 mm sweep	Each	15		
1.22	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN cable in the existing surface / recessed steel / PVC conduit as required.	m	1140		
		B. MCBs, DBs and Cable Trays				
2.1		Providing and fixing Following rating and breaking capacity and pole MCCB existing cubicle panel board including drilling holes in cubicle panel, making connections etc as required.				
2.1.1	2.2.1	100 Amp ,16 KA,TP MCCB	Each	2		
2.1.2	2.2.2	125 Amp ,16 KA,TP MCCB	Each	2		
2.2		Supplying and fixing following way single pole and neutral, sheet steel, MCB distribution board, 240 volts on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc				

		as required (But without MCB/ RCCB/ Isolator).				
2.2. 1	2.3.7	8 way double door	Each	1		
2.3		Supplying and fixing following way horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc as required (But without MCB/ RCCB/ Isolator).				
2.3. 1	2.4.4	4 way double door	Each	1		
2.3. 2	2.4.5	6 way double door	Each	3		
2.3. 3	2.4.6	8 way double door	Each	5		

2.4		Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar, for mounting MCBs, (but without MCB's and incomer) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required).				
2.4.1	2.5.4	4 way double door	Each	4		
2.5		Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.5.1	2.10.1	Single pole	Each	182		
2.5.2	2.10.4	Triple pole	Each	12		
2.5.3	2.10.5	Triple pole and neutral	Each	6		
2.6	2.11	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as	Each	45		

		required.				
2.7		Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.7. 1	2.12. 1	40 amps	Each	1		
2.8		Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.8. 1	2.13. 1	40 amps	Each	4		
2.8. 2	2.13. 2	63 amps	Each	5		
2.9		Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.9. 1	2.14. 1	25 amps	Each	1		

2.9. 2	2.14. 2	40 amps	Each	1		
2.1		Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.10 .1	2.15. 1	25 amps	Each	2		
2.10 .2	2.15. 2	40 amps	Each	2		
2.10 .3	2.15. 3	63 amps	Each	5		
2.11	2.16	Supply and fixing DP sheet steel enclosure on surface recess along with 16/25/32/ amps 240V "C" curve DP MCB complete with connections, testing and commissioing etc as required.	Each	1		
2.12	2.17	Supply and fixing TP sheet steel enclosure on surface recess along with 16/25/32/ amps 415V "C" curve TP MCB complete with connections, testing and commissioing etc as required.	Each	2		

2.13	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	12		
2.14	4.1	Supply and installing following size of perforated GI cable trays with perforations not more than 17.5% in convenient sections, joined with connectors, GI suspenders including nuts and bolts, bends, tees etc as required				
	4.1.4	300mm x 50 mm depth x 1.6mm thickness	m	110		
	4.1.3	200mm x 50 mm depth x 1.6mm thickness	m	40		
	4.1.2	150mm x 50 mm depth x 1.6mm thickness	m	180		
		C. Earthing				
3.1	5.2	Earthing with GI earth pipe 3.0 m long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke as required.	Each	1		

3.2	5.4	Earthing with GI earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke as required.	Each	1		
3.3	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke as required.	Each	1		
3.4	5.7	Supplying and laying 6 SWG GI wire at 0.5m below ground level for conductor earth electrode, including connection / termination with GI thimble etc as required.	m	80		
3.5	5.8	Supply and laying 25mm x 5mm copper strip at 0.5m below ground as strip earth electrode, including connection / terminating with nut, bolt, spring, washer etc as required (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced 50mm).	m	30		
3.6	5.9	Supply and laying 25mm x 5mm GI strip at 0.5m below ground as strip earth electrode, including connection / terminating with nut, bolt, spring, washer etc as required (Jointing shall be done by	m	45		

		overlapping and with 2 sets of GI nut bolt & spring washer spaced 50mm).				
3.7	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	m	90		
3.8	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	m	120		
3.9	5.17	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.	m	180		
		D. MV Cable laying and Termination				
4.1		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
4.1.1	7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	m	230		
4.1.2	7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	m	30		
4.2		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				

4.2.1	7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	m	110		
4.2.2	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	m	60		
4.3		Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
4.3.1	9.1.23	3.5 x 70 sqmm	Each	4		
4.3.2	9.1.22	3.5 x 50 sqmm	Each	4		
4.3.3	9.1.20	3.5 x 25 sqmm	Each	8		
4.3.4	9.1.33	4 x 16 sqmm	Each	4		
4.3.5	9.1.32	4 x 10 sqmm	Each	6		
4.3.6	9.1.32	4 x 6 sqmm	Each	6		
		E. LT Cables				
5		Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date.				

5.1.1		3.5 x 70 sqmm cable	m	30		
5.1.2		3.5 x 50 sqmm cable	m	60		
5.1.3		3.5 x 25 sqmm cable	m	125		
5.1.4		4 x 16 sqmm cable	m	70		
5.1.5		4 x 10 sqmm cable	m	60		
5.1.6		4 x 6 sqmm cable	m	85		
		F. Light Fixtures and Fans				
6.1		Supply of 20W LED Batten surface mounting luminaires with Decorative box type fitting with high efficiency PMMA diffuser including all necessary accessories complete. (Crompton DMLN1LT8-16/LTT8-20/ LTT8-20 /Philips -BN150W LED 20S-6500-PSE OD GR /Wipro - LL20-221-XXX-60-XX).	Nos	35		
6.2		Supply and installation of compact Recess mounted 36W LED luminaire with High translucent diffuser gives soft glare free light & complete with electronic driver including all required mounting accessories	No	120		

		complete. (Crompton LCTLR36-FO- CDL / Philips - Full glow RC 380B LED-35-6500-PSE OD WH / Wipro - CRCO 10R036HP57)				
6.3		Supply of 20 W LED tube light Surface mounting industrial type corrosion resistant IP65 luminaire with polycarbonate body, polycarbonate cover, SS toggles etc including all necessary accessories complete. (Crompton LPFC111LT8-16/ Philips/Wipro)	Nos	10		
6.4		Supply of 1x11W surface mounted luminaire with diffuser and decorative end cap complete with all electrical accessories like electronic ballast, lamp holder, 11W CFL lamp etc. complete with all mounting accessories etc as required. (Wipro WRP 21111 /Crompton/Philips)	Each	10		
6.5		Supplying and fixing ISI marked PVC angle battren with 15 W LED lamp including all connections as required.	Nos	12		
6.6		Supply of ceiling fan 1200mm sweep, double ball bearing, approved colour and quality with original down rod,suspension shackle,canopy etc with out regulator complete with all accessories as required. (Usha Technix Decorative (5 star rating) / Crompton High	Each	42		

		Breeze plus (5 star) / Orient Energy star)				
6.7		Supply & installation of 400mm sweep, Wall fan powder coated guard suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor and all accessories as required complete. (Make : Usha Max Air white or equivalent)	Each	30		
6.8		Supply of ventilating fan 250 mm sweep of approved colour, for single phase 230 volt, 50Hz AC supply complete with motor, capacitor, auto close and open grill cover and all accessories as required complete.	Each	15		
		G. Telephone and Data system				
7.1		Supply and Installation of 20 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	1		
7.2		Supply and Installation of 10 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	1		
7.3		Supply & fixing modular type computer outlet (RJ-45) with modular base and cover plate, GI box complete with all accessories, connection etc.	Each	40		

		complete as required.				
7.4		Supply and installation of 9 U wall mounted Network Rack made of steel, powder coated, front glass cover with PDU's, cable manager and cooling fans including all required accessories.	nos	1		
		H. Miscellaneous				
8.1		Supplying and fixing 40A / 63A TP MCB, 415 Volts, "C" series, miniature circuit breaker in the existing MCB DB complete with connections, testing and commissioning etc as required.	Each	16		
8.2		Supplying and fixing FP weather proof cabinets with IP 65 rating on surface/ recess along with 16/25/32amps 415 volts "C" curve TPN MCB complete with connections, testing and commissioning etc. as required.	Each	5		
8.3		Supplying and fixing following ways surface / recess mounting vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted. Inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs with 100/125 amps TP 16kA MCCB as incomer				

		interconnection between incomer MCCB and busbar (but without MCBs/MCCB) as required. (Note vertical type MCB TPDB is normally used where 3 phase outlets are required).				
8.3.1		4 way	Each	3		
8.3.2		6 way	Each	1		
8.4		Providing and fixing 10 SWG copper wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable etc as required.	m	130		
8.5		Wiring for two light point with 1.5sq.mm FRLS PVC insulated copper conductor singlecore cable in surface/ recessed PVC conduct, one modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq mm FRLS PVC insulated copper conductor single core cable etc as required	Point	25		
8.6		Wiring for three light point with 1.5sq.mm FRLS PVC insulated copper conductor singlecore cable in surface/ recessed PVC conduct, One modular switch, modular plate, suitable GI box and earthing the	Point	15		

		point with 1.5 Sq mm FRLS PVC insulated copppe conductor single core cable etc as required				
-	-					
		Total Amount in Rs				

Project: JIPMER II at Karaikal						
Construction of GNM College						
Part VI: Electrical LT works 2nd Floor						
Sl no	DSR item ref no	Item Description	Unit	Quantity	Rate in figures & words (in Rs.)	Amount in Rs.
		A. LT Wiring				
1.1	1.10.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Each	162		
1.2	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Each	6		

1.3		Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface medium class PVC conduit as required.				
1.3.1	1.14.1	2 x 1.5 sq.mm + 1 x 1.5 sq.mm earth wire	m	820		
1.3.2	1.14.2	2 x 2.5 sq.mm + 1 x 2.5 sq mm earth wire	m	1670		
1.3.3	1.14.3	2 x 4.0 sq.mm + 1 x 4.0 sq mm earth wire	m	790		
1.3.4	1.14.4	2 x 6.0 sq. mm + 1 x 6.0 sq. mm earth wire	m	160		
1	1.18.2	Supplying and drawing 2 pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	m	800		
1.5	1.19	Supplying and drawing co-axial TV cable RG-6 grade 0.7mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel / PVC conduit as required.	m	100		

1.6		Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
1.6.1	1.21.1	20 mm	m	850		
1.6.2	1.21.2	25 mm	m	920		
1.6.3	1.21.3	32 mm	m	100		
1.7	1.22.1 2	Supplying and fixing metal box of 200 x 250 x 100 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.	Each	8		
1.8		Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
1.8.1	1.24.6	Telephone socket outlet	Each	22		
1.8.2	1.24.7	TV antenna socket outlet	Each	2		

1.9	1.25	Supplying and fixing stepped type electronic fan regulator-modular on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	5		
1.1	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	80		
1.11		Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess/ surface etc as required.				
1.11.1	1.27.1	1 or 2 module	Each	25		
1.12	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	Each	115		
1.13	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket	Each	32		

		outlet and 15/16 amps modular switch, connection etc. as required.				
1.14	1.33	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	35		
1.15	1.41	Installation, testing and commissioning of prewired, fluorescent fittings / compact fluorescent fitting / LED of all types, complete with all accessories and tube etc. directly on ceiling /wall, including connections with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	35		
1.16	1.44	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	5		
1.17	1.48	Supplying and fixing extra conduit down rod of 20 cm length GI pipe 15 mm dia, heavy guage including painting etc as required.(Note: More than 5 cm	Each	26		

		length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored).				
1.18		Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
1.18.1	1.50.1	Upto 450 mm sweep	Each	12		
1.19	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN cable in the existing surface / recessed steel / PVC conduit as required.	m	800		
		B. MCBs, DBs and Cable Trays				
2.1		Providing and fixing Following rating and breaking capacity and pole MCCB existng cubicle panel board including drilling holes in cubicle panel, making connections etc as required.				
	2.2.1	100 Amp, 16 KA, TP MCCB	Each	6		

2.2		Supplying and fixing following way single pole and neutral, sheet steel, MCB distribution board, 240 volts on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc as required (But without MCB/ RCCB/ Isolator).				
2.2.1	2.3.6	8 way double door	Each	2		
2.3		Supplying and fixing following way horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc as required (But without MCB/ RCCB/ Isolator).				
2.3.1	2.4.4	4 way double door	Each	1		
2.3.2	2.4.5	6 way double door	Each	3		
2.3.3	2.4.6	8 way double door	Each	3		

2.4		Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar, for mounting MCBs,(but without MCB's and incomer) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required).				
2.4.1	2.5.4	4 way double door	Each	2		
2.5		Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.5.1	2.10.1	Single pole	Each	142		
2.5.2	2.10.4	Triple pole	Each	12		

2.5.3	2.10.5	Triple pole and neutral	Each	5		
2.6	2.11	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	48		
2.7		Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.7.1	2.12.1	40 amps	Each	2		
2.8		Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.8.1	2.13.1	40 amps	Each	3		
2.8.2	2.13.2	63 amps	Each	8		

2.9		Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.9.1	2.14.1	25 amps	Each	1		
2.9.2	2.14.2	40 amps	Each	1		
2.1		Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
2.10.1	2.15.1	25 amps	Each	1		
2.10.2	2.15.2	40 amps	Each	3		

2.10.3	2.15.3	63 amps	Each	4		
2.11	2.16	Supply and fixing DP sheet steel enclosure on surface recess along with 16/25/32/ amps 240V "C" curve DP MCB complete with connections, testing and commissioing etc as required.	Each	4		
2.12	2.17	Supply and fixing TP sheet steel enclosure on surface recess along with 16/25/32/ amps 415V "C" curve TP MCB complete with connections, testing and commissioing etc as required.	Each	4		
2.13	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	16		

2.14	4.1.4	Supply and installing 300mm x 50 mm depth x 1.6mm thick perforated GI cable trays with perforations not more than 17.5% in convenient sections, joined with connectors, GI suspenders including nuts and bolts, bends, tees etc as required	m	110		
		C. Earthing				
3.1	5.2	Earthing with GI earth pipe 3.0 m long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke as required.	Each	4		
3.2	5.4	Earthing with GI earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke as required.	Each	2		
3.3	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc.	Each	2		

		with charcoal/ coke as required.				
3.4	5.7	Supplying and laying 6 SWG GI wire at 0.5m below ground level for conductor earth electrode, including connection/ termination with GI thimble etc as required.	m	90		
3.5	5.8	Supply and laying 25mm x 5mm copper strip at 0.5m below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc as required (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced 50mm).	m	25		
3.6	5.9	Supply and laying 25mm x 5mm GI strip at 0.5m below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc as required (Jointing shall be done by overlapping and with 2 sets of GI nut bolt & spring washer spaced 50mm).	m	35		
3.7	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	m	45		

3.8	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	m	120		
3.9	5.17	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.	m	220		
		D. MV Cable laying and Termination				
4.1		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
4.1.1	7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	m	340		
4.1.2	7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	m	85		
4.2		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
4.2.1	7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	m	195		
4.2.2	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	m	75		

4.3		Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
4.3.1	9.1.22	3.5 x 50 sqmm	Each	8		
4.3.2	9.1.20	3.5 x 25 sqmm	Each	4		
4.3.3	9.1.33	4 x 16 sqmm	Each	6		
4.3.4	9.1.32	4 x 10 sqmm	Each	14		
4.3.5	9.1.32	4 x 6 sqmm	Each	8		
		E. LT Cables				
5		Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date.				
5.1.1		3.5 x 50 sqmm cable	m	160		

5.1.2		3.5 x 25 sqmm cable	m	45		
5.1.3		4 x 16 sqmm cable	m	110		
5.1.4		4 x 10 sqmm cable	m	355		
5.1.5		4 x 6 sqmm cable	m	195		
		F. Light Fixtures and Fans				
6.1		Supply of 20W LED Batten surface mounting luminare with Decorative box type fitting with high efficiency PMMA diffuser including all necessary accessories complete. (Crompton DMLN1LT8-16/ LTT8-20/ LTT8-20/ Philips -BN150W LED 20S-6500-PSE OD GR/ Wipro - LL20-221-XXX-60-XX).	Nos	35		
6.2		Supply and installation of compact Recess mounted 36W LED luminaire with High translucent diffuser gives soft glare free light & complete with electronic driver including all required mounting accessories complete. (Crompton LCTLR36-FO- CDL/	No	140		

		Philips -Full glow RC 380B LED-35-6500-PSE OD WH/ Wipro -CRCO 10R036HP57)				
6.3		Supply of 20 W LED tube light Surface mounting industrial type corrossion resistant IP65 luminaire with polycarbonate body, polycarbonate cover, SS toggles etc including all necessary accessories complete. (Crompton LPFC111LT8-16/ Philips/ Wipro)	Nos	10		
6.4		Supply of 1x11W surface mounted luminaire with diffuser and decorative end cap complete with all electrical accessories like electronic ballast, lamp holder, 11W CFL lamp etc. complete with all mounting accessories etc as required. (Wipro WRP 21111 /Crompton/Philips)	Each	10		
6.5		Supplying and fixing ISI marked PVC angle battern with 15 W LED lamp including all connections as required.	Nos	15		

6.6		Supply of ceiling fan 1200mm sweep, double ball bearing, approved colour and quality with original down rod, suspension shackle, canopy etc with out regulator complete with all accessories as required. (Usha Technix Decorative (5 star rating)/ Crompton High Breeze plus (5 star)/ Orient Energy star)	Each	5		
6.7		Supply & installation of 400mm sweep, Wall fan powder coated guard suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor and all accessories as required complete. (Make : Usha Max Air white or equivalent)	Each	56		
6.8		Supply of ventillating fan 250 mm sweep of approved colour, for single phase 230 volt, 50Hz AC supply complete with motor, capacitor, auto close and open grill cover and all accessories as required complete.	Each	12		
		G. Telephone and Data system				

7.1		Supply and Installation of 20 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	1		
7.2		Supply and Installation of 10 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	1		
7.3		Supply & fixing modular type computer outlet (RJ-45) with modular base and cover plate, GI box complete with all accessories, connection etc. complete as required.	Each	30		
7.4		Supply and installation of 9 U wall mounted Network Rack made of steel, powder coated, front glass cover with PDU's, cable manager and cooling fans including all required accessories.	nos	1		
		H. Miscellaneous				
8.1		Supplying and fixing 40A/63A TP MCB, 415 Volts, "C" series, miniature circuit breaker in the existing MCB DB complete with connections, testing and commissioning etc as required.	Each	6		

8.2		Supplying and fixing FP weather proof cabinets with IP 65 rating on surface/ recess along with 16/25/32amps 415 volts "C" curve TPN MCB complete with connections, testing and commissioning etc. as required.	Each	10		
8.3		Supplying and fixing following ways surface/ recess mounting vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted. Inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs with 100 amps TP 16kA MCCB as incomer interconnection between incomer MCCB and busbar (but without MCBs/ MCCB) as required. (Note vertical type MCB TPDB is normally used where 3 phase outlets are required).				
8.3.1		4 way	Each	4		
8.3.2		6 way	Each	3		
8.4		Providing and fixing 10 SWG copper wire on surface or in recess for loop earthing along with existing	m	180		

		surface / recessed conduit / submain wiring / cable etc as required.				
8.5		Wiring for two light point with 1.5sq.mm FRLS PVC insulated copper conductor singlecore cable in surface/ recessed PVC conduct, one modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq mm FRLS PVC insulated copper conductor single core cable etc as required	Point	25		
8.6		Wiring for three light point with 1.5sq.mm FRLS PVC insulated copper conductor singlecore cable in surface/ recessed PVC conduct, One modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq mm FRLS PVC insulated copper conductor single core cable etc as required	Point	18		
-	-					
		Total Amount in Rs				

Project: JIPMER II at Karaikal
Construction Works at GNM College

Part VII: Civil works - Water Proofing Works

Sl n o	DS R ite m ref no	Item Description	Unit	Quant ity	Rate in figures & words (in Rs.)	Amount in Rs.
1	MR	<p>Providing and applying terrace water proofing (BASF) (1) Coving: Providing and laying an angular fillet of 75mm X 75mm at the junction of floor slab and wall using MasterEmaco S 348. (2) surface treatment: Cleaning, wire brushing and making surface free from dirt, loose particles laitance etc. Supplying and Sealing all visible cracks with Elastyseal Acrylic Sealant. Supplying and Applying one self priming coat of Masterseal 551 diluted with water in the ratio 1:1 and thereafter followed with 2 coats of Masterseal 551 an elastomeric, cementitious water proof coating. To broad cast fine sand during application of final coat of Masterseal 551 and allow curing for 3 days. (3) Protective screed: Providing and laying protective screed over chemical treatment using CM 1:4 to minimum 15mm thickness duly admixed with MasterPel 707. All the dosages must be as per manufacturer's specifications and thereby the approval of engineer incharge. Rate includes all materials, lead and lift, labour, tools and tackles, curing etc</p>	sqm	1345.00		

2	12.5 5	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	sqm	1345.0 0		
3	MR	Providing and appying Treatment for expansion joint (Horizontal/ Vertical) (BASF) (a) Substrate preparation Cleaning and wire brushing the expansion joint, racking out the existing sealant, backing material if any from the joints. Preparing the damages edges with bonding coat of Master Brace 1414 and Master Emaco S348, fibre reinforced structural repair mortar and curing the same of 72 hours. (b) Treatment : Clean the surface by making the surface free from oil,grease, loose particles etc, filling the joint with backup material like expanded polyethylene foam/sheet and backer rod and leaving the gap of 25mm from the top. Sealing the joint of 25 mm W x 15 mm D over Backer Rod using Polyurethane Sealant MasterFlex 472 leaving a				

		<p>loop of 25mm gap at the top for MasterSeal 930/or equivalent and allowing it to air cure for 72 hrs.</p> <p>Applying MasterBrace 2200 or equivalent after mixing component A and B to make it a homogenous mix, over both sides of the joints Upto 30 mm each side with The thickness of 1 – 2 mm using trowel or tooth comb.</p> <p>Placing and fixing the MasterSeal 930 of 100 mm in width and 2 mm thick as per schematic drawing over MasterBrace 2200 within the open time and pressing it hard so that the adhesive is squeezed out from both sides.</p>				
		<p>Applying MasterBrace 2200 over the edges MasterSeal 930 again in the same Way. All the dosages must be as per manufacturer's specifications and thereby the approval of engineer incharge.</p> <p>Rate includes all materials, lead and lift, labour, tools and tackles, curing etc</p>	m	210.00		

4	MR	<p>Providing and applying the BASF MasterEmaco SBR 2 material as per manufacturer's specification on the sunken areas of toilet. (1) Coving: Providing and laying an angular fillet of 75mm X 75mm at the junction of floor slab and wall using MasterEmaco S 348. The rate includes preparation of surface (surface treatment: Cleaning, wire brushing and making surface free from dirt, loose particles laitance etc. Supplying and Sealing all visible cracks with Elastyseal Acrylic Sealant), treatment, sealing of all joints, corners, junctions of pipes and masonry, curing etc. The waterproofing coating shall be protected with a protective mortar. Protective mortar shall be done with liquid integral water proofing compound. The coated surface should be protected with 1:3 CM (minimum 15mm thick) admixed with lignosulphonate polymer MasterPel 777 of BASF make, water proofing cum plasticizing liquid integral waterproofer at a dosage of 100 ml per 50 kg of cement and shall comply with IS: 2645-2003. complete in all respects to the satisfaction of the engineer in charge. All the dosages must be as per manufacturer's specifications and there by the approval of engineer in charge. Rate includes all materials, lead and lift, labour, tools and tackles, curing etc</p>	sqm	190.00		
---	----	--	-----	--------	--	--

5	4.2. 5	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	160.00		
		Total Amount				

Project: JIPMER II at Karaikal

Part VIII: Construction of Security Cabin, Gate, Canopy, Road Works for GNM Building

Sl no	DSR item ref no	Item Description	Unit	Quantity	Rate in figures & words (in Rs.)	Amount in Rs.
		I. Earth Work				
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. 2.6.1 All kinds of soil	cum	55.00		
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	25.00		
		II. PCC				
3	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone	cum	13.00		

		aggregate 20 mm nominal size)				
4	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth	sqm	30.00		
		III. RR Masonry				
5	7.1.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	10.00		
		IV. RCC				
6	5.33.1	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of	cum	30.00		

		concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately). 5.33.1 All works upto plinth level				
7	5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately). All works above plinth level upto floor V level	cum	20.00		
8	5.34.1	Extra for providing richer mixes at all floor levels. Note:- Excess/ less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:	cum	50.00		

		Cement content considered in M-30 is @ 340 kg/ cum)				
9	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	25		
		V. Shuttering				
10	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	40		
11	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	sqm	35.00		
12	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilever	sqm	45		
13	5.9.1 9	Centering and shuttering including strutting, propping etc. and removal of form for: Weather shade, Chajjas, corbels etc., including edges	sqm	15		
		VI. Reinforcement				
14	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete all levels Thermo-Mechanically	kg	6000.00		

		Treated bars				
		VII. Anti Termite Treatment				
15	2.35. 3.1	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor: With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	sqm	35.00		
		VIII. Brick Work				
16	6.4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5 in superstructure above plinth level up to floor V level in all shapes and sizes in : 6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	70.00		
		IX. Plastering				
17	13.8. 2	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:4 (1 cement : 4 fine sand)	sqm	120.0 0		
18	13.7. 2	Providing and applying 12 mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (1 cement : 4 fine sand)	sqm	120.0 0		
19	13.1 6.1	Providing and applying 6 mm cement plaster of mix: 1:3 (1 cement : 3 fine sand)	sqm	35.00		

		X. Doors and Windows				
20	PSR 9.1.1 B	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position - Burma Teak wood	cum	0.50		
21	PSR 9.5.1 .1B	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately. - Burma Teak wood - 35mm thick shutter	sqm	5.00		
22	PSR 9.14	Extra for providing ISI marked stainless steel built hinges instead of black enamelled M.S. butt hinges with necessary Screws. (Shutter area to be measured)	sqm	10.00		
23	13.6 8.1	French spirit polishing: Two or more coats on new works including a coat of wood filler	sqm	5.00		
24	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	each	10.00		

25	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	each	5.00		
26	9.97.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	each	5.00		
27	9.92.1	Providing and fixing chromium plated brass handles with necessary screws etc. complete: 125 mm	each	5.00		
28	21.1.1.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading	kg	190.00		

		for glazing/ paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling to be paid for separately) : Powder coated aluminium (minimum thickness of powder coating 50 micron) (HINDALCO/ JINDAL)				
29	21.1. 2.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber/ neoprene gasket required (all fittings included) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	130.0 0		
30	21.3. 2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.5 mm thickness	sqm	20.00		

31	21.1 6.2	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge Powder coated minimum thickness 50 micron aluminium	each	15.00		
32	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	each	5.00		
33	21.8. 1	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width (DOW CORNING)	m	45.00		
		XI. Painting				
34	13.8 0	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	155.0 0		
35	13.4 3.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	sqm	155.0 0		

36	13.8 3.2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	sqm	155.0 0		
37	13.4 7.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : 13.47.1 New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	120.0 0		
38	13.5 2.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work	sqm	100.0 0		
		XII. Flooring/ Granite Works				
39	11.2 6.1	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	sqm	35.00		

40	11.2 7	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	sqm	10.00		
41	8.2.2 .2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	sqm	15.00		
		XIII. Road Works				
42	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres	sqm	2695. 00		

43	16.7 8.1	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineerin-Charge. With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	640.0 0		
44	16.6 8	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm	2695. 00		
45	16.6 9	Providing and laying at or near ground level factory made kerb stone of M25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp	cum	35.00		

		curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).				
		XIV. Structural Steel Work				
46	10.1 6.3	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete 10.16.3 Electric resistance or induction butt welded tubes	kg	8190.00		
47	12.5 0	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling /	sqm	635		

		self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
48	12.5 1.1.	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm)	m	80		
49	12.5 1.6	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Gutter .(600 mm over all girth)	m	160		
		XV. ACP				

50	26.7	<p>Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.</p>				
----	------	---	--	--	--	--

	<p>c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two</p>	sqm	200.00		
--	--	-----	--------	--	--

		decimal places.				
		Total Amount				

Project: JIPMER II at Karaikal

Part IX: Construction of Common Facilities like Cafe, Pump Room, Maintenance Room, ATM, DG Room etc

Civil works

Sl no	DSR item ref no	Item Description	Unit	Quantity	Rate in figures & words (in Rs.)	Amount in Rs.
		I. Earth Works				

1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. 2.6.1 All kinds of soil	cum	115.00		
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	135.00		
		II. PCC				
3	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	55.00		
4	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth	sqm	100.00		
		III. RR Masonry				

5	7.1.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	90.00		
		IV. RCC				
6	5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately). All works above plinth level upto floor V level	cum	55.00		

7	5.34.1	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC / RMC. (Note : Cement content considered in M-30 is @ 340 kg/ cum)	cum	55.00		
8	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quinta l	25		
		V. Shuttering				
9	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform	sqm	30.00		
10	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilever	sqm	55		
11	5.9.19	Centering and shuttering including strutting, propping etc. and removal of form for : Weather shade, Chajjas, corbels etc., including edges	sqm	25		
12	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	85		

		VI. Reinforcement				
13	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete all level. Thermo-Mechanically Treated bars	kg	6930.00		
		VII. Anti termite treatment				
14	2.35.3.1	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor : With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	sqm	210.00		
		VIII. Brick Work				
15	6.4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5 in superstructure above plinth level up to floor V level in all shapes and sizes in : 6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	100.00		
		IX. Plastering				
16	13.8.2	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	sqm	415.00		

17	13.7.2	Providing and applying 12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	sqm	385.00		
18	13.16.1	Providing and applying 6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	sqm	30.00		
		X. Structural Steel Works				
19	10.16.3	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete 10.16.3 Electric resistance or induction butt welded tubes	kg	5015.00		
20	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using	sqm	270		

		self drilling / self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
21	12.51.1	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm) (TATABLUESCOPE/ LLOYD)	m	45		
22	12.51.6	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Gutter .(600 mm over all girth)	m	90		
		XI. Doors and Windows				

23	PSR 9.1.1B	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position - Burma Teak wood	cum	0.30		
24	PSR 9.5.1.1 B	Providing and fixing panelled or panelled and glazed shutters for doors , windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately. - Burma Teak wood - 35mm thick shutter	sqm	15.00		
25	PSR 9.14	Extra for providing ISI marked stainless steel butt hinges instead of black enamelled M.S. butt hinges with necessary Screws. (Shutter area to be measured)	sqm	25.00		
26	13.68.1	French spirit polishing : Two or more coats on new works including a coat of wood filler	sqm	25.00		
27	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	each	25.00		

28	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	each	15.00		
29	9.97.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	each	25.00		
30	9.92.1	Providing and fixing chromium plated brass handles with necessary screws etc. complete: 125 mm	each	15.00		
31	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	10.00		
32	21.1.1. 2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary	kg	475.00		

		filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling to be paid for separately) : Powder coated aluminium (minimum thickness of powder coating 50 micron)				
33	21.1.2.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (all fittings included) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	315.00		
34	21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.5 mm thickness	sqm	35.00		

35	21.16.2	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge Powder coated minimum thickness 50 micron aluminium	each	35.00		
36	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	each	15.00		
37	21.8.1	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	m	95.00		
38 A	10.6.1	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 part 1 and M.S. top cover of required	sqm	30.00		

		thickness for rolling shutters. 10.6.1 80x1.25 mm M.S. laths with 1.25 mm thick top cover				
38 B	10.9	Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).	sqm	10		
39	10.7	Providing and fixing ball bearing for rolling shutters.	each	10.00		
40	21.4.1	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in- charge. 21.4.1 With stainless	each	3.00		

		steel cover plate minimum 1.25 mm thickness				
41	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (including door lock of approved make and type)	sqm	5.00		
		XII. Painting				
42	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	440.00		
43	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	sqm	440.00		

44	13.83.2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	sqm	440.00		
45	13.47.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : 13.47.1 New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	440.00		
46	13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work	sqm	75.00		
		XIII. Flooring/ Granite Works				
47	11.26.1	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	sqm	210.00		

48	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	sqm	30.00		
49	8.2.2.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	sqm	10.00		
50	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	5.00		
		Total Amount				

--	--	--	--	--	--	--

