

Abstract For
CONSTRUCTION OF CLMC AT MEDICAL COLLEGE

Sl. No.	Description	Area (Sqm)	Amount
	Construction of CLMC	210	5321179
	Add 12 % GST		638541
	Total Amount		5959720
	Say Amount		59.00 Lakh

Assistant Engineer
NHM Bhopal

Executive Engineer
NHM Bhopal

CONSTRUCTION OF CLMC AT MEDICAL COLLEGE

		ITEM	NO	L	B	H/D	QTY	Unit	Rate	Amount
	11.45	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.	1	4.00	4.60		18.40	sqm	547.20	10068.48
	11.46	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS : 15622 of approved make in all Colours shades, Except burgundy, Bottle green, Black, laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement : 3 sand) jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.								
			1.00	4.00		2.10	8.40			
			1.00	4.60		2.10	9.66			
							18.06	sqm	644.00	11630.64
	12.52.3	Providing & fixing of unpeforated Antibacterial Metal Tile ceiling system comprising of Tile of 600mm wide and 600mm long manufacutred out of 0.7mm thick aluminium alloy 3105 with beveled edge of 4.15mm width and height of 32mm. The tile will be manufactured on advanced equipment that includes several levelling stage in the manufacturing								
		process by approved manufactures such as Hunter Douglas, Lindner, Durlum or equivalent. Tile ends will be raised with pips and stops to ensure positive engagement into the spring to enable for ed-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum deflection across the length of Tile. All Tiles will be bevel edged. The Tile shall be epoxy polyester powder coating with ANTIBAC in white colour which is in compliant to ROHS directive. The Tile shall be clipd into clip in rail of 0.5mm thick G.I. in form of a grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid suspension of 4mm G.I. Road, Hold on Clamp with Clip. (rate incude all material and labour).	1	14.00	15.00		210.00	sqm	2358.90	495369.00
	45.9	Supply , Installation ,testing ,commissioning of 2 mm thick roll from antistatic Conductive semless Vinyl flooring with perfectly curved flash-covings resistant to mechanical stress and dynamic loads and having conductive backing to ensure optima; and consistent conductive properties $5 \times 10^4 < R_t \leq 10^6$ Ohm (En 1081). it should comply with EN 649. All joint should be washable. Residual Indentation app. 0.03 mm, It should caster wheel test qualified, Dimensional								
		chamber/feeding	2	5.00	4.20		42.00			
		RO/Laminar	2	4.00	2.80		22.40			
							64.40	sqm	2340.00	150696.00
	11.78	Providing fixing 2mm thick conductive vinyl flooring in required colour suitable for use in areas where static electricity required to be discharge to protect sensitive Electronic equipments conductive flooring is to be layed on sub floors, that are smooth level fixed by recommended adhesive cutting fixing etc. complete as per direction of Engineer-in-charge.								
		Office/Counselling	2	5.00	2.80		28.00			
		lobby	1	5.00	4.80		24.00			
		Reception	1	3.00	4.60		13.80			
		Doctor room	1	4.00	4.60		18.40			
		Nurse Room	1	4.60	3.00		13.80			
		Passage	1	10.75	2.00		21.50			
		Wash	1	4.00	2.80		11.20			
							130.70	sqm	630.90	82458.63
	28.1	Supply ,installation , testing ,commissioning of modular OT wall & Corner Pannels Made of Stainless Steel (SS) of grade SS304 .The inner surface of wall should be constructed with 1.5 mm thick Stainless Steel grade SS304 backed by minimum 12 mm thick gypsum board fixed by grouting and suitable galvanized iron frame on								
		chamber/feeding	4	5.00		3.60	72.00			
			4	4.20		3.60	60.48			

		ITEM	NO	L	B	H/D	QTY	Unit	Rate	Amount
							132.48	sqm	7200.00	953856.00
	28.3	Providing and establishing Anti Bacterial & Anti Fungicidal sterile coating of liquid plastic paint on GI Puff/SS panel of modular OT.The Paint should be seamless, easy to clean, should have vapour permeability which allows substrate moisture to escape and protects against growth of bacteria, mould and yeasts, moisture resistance, freeze / thaw resistance. Anti bacterial paint's anti microbial quality should remain active throughout the life of the product. Vapors permeable structure should allow damp substrates to dry out without causing blistering. It should tolerate cleaning with hospital chemical agents. Filling of all joints and cavities should be with metallic epoxy filler and sand casted flush to provide a joint-less finish. This should include all fittings, accessories, hardware, support structures, etc required for installation. Anti-bacterial and Anti-fungus sterile coating shall be applied on the finished walls & ceiling with atleast 2-3 coats to achieve a thickness of minimum 200 micron. Before application of sterile wall coating an appropriate primer shall be applied.The primer shall be supplied								
		chamber/feeding	2	5.00	4.20		42.00			
		RO/Laminar	2	4.00	2.80		22.40			
							64.40	sqm	1080.00	69552.00
	28.2	Supply ,installation , testing ,commissioning of modular OT ceiling panels Made of Stainless Steel (SS) of grade SS304 .The inner surface of Panels should be constructed with 1.5 mm thick Stainless Steel grade SS304 backed by minimum 12 mm thick gypsum board fixed by grouting on the roof of OT . The sheet panel shall be indigenous of reputed make and shall be provided with manufactures test certificate. The outer surface of panels shall be fixed to the roof by essential								
		chamber/feeding	2.00	5.00	4.20		42.00			
		Laminar	1.00	4.00	2.80		11.20			
							53.20	sqm	7650.00	406980.00
	45.11	SINGLE LEAF Automatic Hermetical Seald Door (SS-304 Frame):-								
		2100 mm Height & 1500 mm Width Hermetically sealing automatic sliding doors with Door Blade of Thickness minimum 55 mm.-60mm . The door surface is made up of SS 304 of reputed indigenous make with thickness of at least 1.2 mm on both Faces.The inner part of the door should be filled with CFC free polyurethane foam (density 40 Kg / m3) thickness of 52	2				2.00	no	284400.00	568800.00
	45.2	Laminar Air Flow System:								
		Supplying, Installation, and Commissioning of Laminar air flow ceiling system of perforated air diffuser sheet made of stainless steel with H-14 type HEPA filters. The ceiling filtration system should be designed to ensure unidirectional flow of clean air in to the operation theatre and the exit of the contaminated air out of the operation theatre through the return air ducts. The Plenum box should be made of Aluminum epoxy	1				1.00	no	178200.00	178200.00
		SURGEON'S SCRUB SINK (2 BAY) :-								

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		ITEM	NO	L	B	H/D	QTY	Unit	Rate	Amount
	9.114	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.								
	9.114.2	Twin rubber stopper	11				11.00	each	77.40	851.40
	21.5	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								
	21.5.1	With stainless steel cover plate - minimum 1.25 mm thickness	2				2.00	each	1810.80	3621.60
	9.110	Providing and fixing aluminium tower bolts								
	9.110.3	200x10 mm	22				22.00	each	73.80	1623.60
	9.113	Providing and fixing aluminium handles ISI								
	9.113.1	125 mm	22				22.00	each	67.50	1485.00
	ELECTRICAL									
	3.6	Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. conduit (MMS) of ISI marked suitable size etc. as required as per specification								
		a) 2x2.5 Sq.mm.					100.00	Metre	83.70	8370.00
		b) 4x2.5 Sq.mm.					50.00	Metre	137.70	6885.00
	4	Point wiring (excluding metallic switch box & sheet but including switches,sockets,lamp,holders,ceiling roses etc) with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit etc. as required as per specification for :-								
	4.1	Light Point/Fan Points.								
		a) Short point					10.00	Each	264.60	2646.00
		c) Long point					15.00	Each	847.60	12714.00
	4.2	3 Pin 6 Amp socket outlet on Separate Board								
		a) Short point					5.00	Each	452.70	2263.50
		c) Long point					8.00	Each	1072.80	8582.40
	4.3	Call Bell / Buzzer Points								
		c) Long point					3.00	Each	884.70	2654.10
	4.5	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board .					15.00	Each	256.50	3847.50
	16	Supplying and fixing PVC conduit ISI marked along with the accessories in concealed system etc. as required								
	16.1	PVC . Conduit 20 mm (HMS)					150.00	Metre	54.90	8235.00
	16.2	PVC . Conduit 25 mm (HMS)					50.00	Metre	64.80	3240.00
	18.2	Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch,socket etc. as required for:-								
	18.2.1	1 Or 2 Module					5.00	Each	140.40	702.00
	18.2.2	3 Module					10.00	Each	187.20	1872.00
	18.2.4	6 Module					8.00	Each	293.40	2347.20
	24	Rewiring in existing surface /concealed rigid steel /PVC non metallic conduit with PVC insulated cable FR with copper multi strand conductor ISI marked and other materials as required including replacement of worn-out /damaged/missing material, painting etc. complete as per specification. This shall include all work, arrangement required for wiring but shall exclude switch, ceiling rose fitting etc.								

		ITEM	NO	L	B	H/D	QTY	Unit	Rate	Amount
	24.1	Light /Fan/3Pin 6AMP socket outlet on separate board / Call Bell/ Buzzer Points :-								
	24.3.2	2 X 2.5 Sq mm.					100.00	Metre	57.60	5760.00
	25.3	Supplying of ISI Marked Switch Fuse Unit (rewirable type) triple pole with neutral link ,415 Volt having conduit / cable gland entry with two earthing terminals confirming to IS : 13947(Part I & III) .								
	25.3.3	63 Amps.					5.00	Each	3046.50	15232.50
	27.5	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures :-								
	27.5.1	SINGLE POLE (SP)								
	27.5.1.2	6 Amp to 32 Amp Rating					6.00	Each	184.50	1107.00
	27.5.5	FOR TRIPLE POLE & NEUTRAL(TPN)								
	27.5.5.2	6 Amp to 32 Amp Rating					5.00	Each	1251.90	6259.50
	29.3	Supplying and fixing as per specification Call bell / buzzer of approved make with necessary materials complete.								
	29.3.2	Ding Dong bell					3.00	Each	96.30	288.90
	29.7	Supplying and fixing as per specification Switch of approved make ISI marked with necessary material complete.								
	29.7.5	20/16 Amps S.P.250 Volt Modular Switch					25.00	Each	171.00	4275.00
	29.7.4	6/10 Amps S.P.250 Volt Modular Switch					10.00	Each	115.20	1152.00
	29.19	Supplying,Fixing and Testing of Flourescent Tube rod ISI marked of approved make as required as per specification								
	29.19.1	4' X 40 Watt					20.00	Each	45.00	900.00
	29.19.7	T - 5 Lamp - 28 Watt					15.00	Each	119.70	1795.50
	29.23	Supplying, Fixing and Testing of Compact Fluorescent Lamp (CFL) with inbuilt electronic ballast ISI marked BC / ES cap of approved make as required as per specification								
	29.23.5	18 Watt					10.00	Each	204.30	2043.00
	29.28	Supplying and fixing of approved make step type electronic Fan regulator including connection etc. as required on existing board								
	29.29.1	100 Watt (socket type)					8.00	Each	261.90	2095.20
	29.31	Supplying and fixing of approved make step type Modular electronic Fan regulator including connection etc. as required on existing board								
	29.31.2	100 Watt (2 module)					8.00	Each	620.10	4960.80
	30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/1979 with up to date ammendments.								
	30.1.1	Ceiling Fan (5 star & ISI)-1200 mm Sweep					8.00	Each	2048.40	16387.20
	30.4	Supplying, erection and testing of approved make 'Fresh Air Fan' AC 230-250 volts with connection and including frame bolt/Anchor hole fasteners etc. complete finished of approved as required.								
	30.4.3	300mm sweep					2.00	Each	1293.30	2586.60
	30.6	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished of approved as required.								
	30.6.1	300mm sweep 900 RPM					2.00	Each	2626.20	5252.40

		ITEM	NO	L	B	H/D	QTY	Unit	Rate	Amount
	31.19	Supplying, fixing & testing of approved make of low watt CFL roadway / street light luminary with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray, electronic ballast (HF), PF > 0.95, THD <30%, clear acrylic cover with necessary materials connection including mounting with GI pipe Light 'A' class 25/32mm OD, clamps on existing wall / pole etc. complete as required (without lamp)								
	31.19.1	CFL 1 X 36 watt					5.00	Each	1746.90	8734.50
	31.22	Supply and fixing Led tube rod comprising of LED tube with non integral / integral driver, 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy > 80 lm/W. LED driver PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer mandatory i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer.								
	31.22.1	1 X 5/8W Integral Tube fitting complete								
	31.22.2	1 X 18/20/22W, Integral					5.00	Each	1421.10	7105.50
	46.12	Split AC (Non Inverter)								
	46.12.3	1.8/2.0 T R Rating					5.00	Each	47726.00	238630.00
		Furniture								
	Approve Item	Back Runner Supplying and Fixing in position Back Runner of size 3000 mm (L) x 750 mm (H) x 450 mm (W) made of 19 mm thick Plywood of phenol formaldehyde resin bonding IS 303 with 1.0 mm thick laminate sheet Inside & outside with provision of drawer cabinet consist of drawers/openable ahutter with nessary hard ware material and hardware fittings as approved by Engineer in charge such as handles 100 mm. locks (door set . godrej) , brass hinges , magnetic catcher, drawar slide auto closing , etc (Hardware fittings are to be paid seprately) as per Standard Drawing attached. Make -Plywood and laminates- Century,Archid,Royal touch, Duro , Green.(BWP)	5				5.00		35588.00	177940.00
	Approve Item	Side Runner Supplying and Fixing in position Side Ruuner of size 1500 mm (L) x 750 mm (H) x 450 mm (W) made of 19 mm thick Plywood of phenol formaldehyde resin bonding IS 303 with 1.0 mm thick laminate sheet Inside & outside with provision of drawer cabinet consist of drawers/openable ahutter with nessary hard ware material and hardware fittings as approved by Engineer in charge such as handles 100 mm. locks (door set . godrej) , brass hinges , magnetic catcher, drawar slide auto closing , etc (Hardware fittings are to be paid seprately as per MPPWD SOR) as per Standard Drawing attached.. Make -Plywood and laminates- Century,Archid,Royal touch, Duro , Green.(BWP)	3				3.00		35588.00	106764.00
	Approve Item	Shoe Rack Supplying and Fixing in position Shoe Rack of size 1200 mm (L) x 450 mm (W) x 750 mm (H) made of 19 mm Plywood of phenol formaldehyde resin bonding IS 303 with 1.0 mm thick laminate sheet Inside & outside with nessary hard ware material and hardware fittings as approved by Engineer in charge (Hardware fittings are to be paid seprately as per MPPWD SOR) as per Standard Drawing attached. Make -Plywood and laminates- Century,Archid,Royal touch, Duro , Green.(BWP)	3				3.00		9313.69	27941.07

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