

<b>Package -3 : - BOQ for Operation Theatre finishing Work &amp; external road work</b>						
<b>S. No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate in figures</b>	<b>Rate in words</b>	<b>Amount</b>
				(in Rs.)	(in Rs.)	(in Rs.)
1.01	Preparation of sub grade by 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 disposal of surplus earth lead upto 50 Metres.	1800.00	SQM			
1.02	Laying water bound macadam with specified stone aggregate stone screening and blinding material including screening sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete including supply of appropriate size stone aggregate, stone chipping 12.5 mm and moroum (Consumption of material shall be as per CPWD specification & payment shall be for the compacted thickness on sqm basis as mentioned in the item)					
a)	Sub base with stone aggregate 90mm to 45mm size including stone screening 13.2 mm size.(100 mm compacted thickness)	1800.00	sqm			
b)	Base course with 63 mm to 45mm size including stone screening 13.2 mm size.(75 mm compacted thickness)	1350.00	sqm			
1.03	Demolishing brick work in cement mortar including stacking of servicable material & disposal of unservicable material from site to suitable place where there is no objection to AIIMS or any public authority.	75.00	Cum			
1.04	Demolishing RCC work including stacking of steel bars & disposal of unservicable material from site to suitable place where there is no objection to AIIMS or any public authority.	1.00	Cum			

S. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
				(in Rs.)	(in Rs.)	(in Rs.)
1.05	Dismantling of barbed wire or flexible wire rope in fencing including making roll and stacking as directed.	100.00	kg			
1.06	Dimolishing of cement concrete flooring including disposal of material to a suitable place where there is no objection to AIIMS or any public authority with 1:3:6 or richer mix	5.00	Cum			
1.07	Dismantling roofing including ridges, hips, valleys & gutters etc. & stacking of material & disposal of unservicable material from site to suitable place where there is no objection to AIIMS or any public authority.					
	Asbestos sheet	50.00	sqm			
1.08	Half brick masonry with bricks of class designation 75 upto floor V level					
	Cement mortar (1:4) 1 cement: 4 coarse sand	50.00	sqm			
1.09	Extra for half brick work masonry in superstructure at 7th floor level	50.00	sqm			
1.10	12 mm cement plaster of mix 1:6 (1 cement: 4 fine sand)	50.00	sqm			
1.11	Steel work welded in built up section/frame work including cutting, hoisting, fixing in position, making holes, repairing & applying primer coat of approved steel primer & enamel paint using structural steel etc, as require in stringers, treades, landing etc. of stair case including use of chequered plates, inserts etc. wherever required , all complete	200.00	kg			

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				(in Rs.)	(in Rs.)	(in Rs.)
1.12	Providing & laying in position specified grade of reinforced cement concrete including the cost of centering & shuttering & finishing excluding reinforcement all work upto 7th floor level					
	1:1.5:3 (1 cement : 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)	1.00	cum			
1.13	Reinforcement for RCC work including straightening, cutting, bending & placing in position in complete.					
	Cold twisted bar/TMT bar as directed	20.00	kg			
1.14	Providing vehicle in good running condition to the exclusive use of Engineer representative. The rates are inclusive of cost of driver, fuel, oil, lubricants etc.	6000.00	km			
1.15	Grassing with Doob grass including watering and maintenance of the lawn for 30 days or more till the grass form a thick lawn free from weeds and fit for mowing including supplying good earth if needed					
(l)	In rows 7.5cm apart in either direction	2000	Sqm			
1.16	Supply & stacking of manure at site including Royalty & carriage ( Manure measured in stack will be reduced by 8% for payment)	8	Cum			
1.17	Preparing pits of size 1.2mX1.2mX1.2m by excavation in all kind of soil/ ordinary rock, applying anti-termite treatment, planting the tree & refilling the pit with compost (manure and earth mixed in the ratio 1:4) breaking clods, flooding with water, filling with more compost if necessary & fine dressing including removal and disposal of rubbish unserviceable materials & serplus earth if anywith all lifts and leads. Anti-termite treatment shall be in form of 200 g neem cake mixed with compost followed by CHLOROPYRIPHOS(DURSBAN make or equivalent) applied at 2ml per litre in watering of 30 litres.	100	Each			
1.18	Supply of trees as per following botanical names and heights in 450mm dia pot size:-					

S. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
				(in Rs.)	(in Rs.)	(in Rs.)
	Trees (Height 4 feet each)					
	Araucaria cookii	10	Each			
	Anthosephalus cadamba	10	Each			
	Plumeria Alba	40	Each			
	Royal Palm	40	Each			
1.19	Stainless steel swing door Having window - 300x300mm with size of 1500x2100 made out S.S 304 PVC Coated	2	Each			
	Stainless steel swing door Having window - 300x300mm with size of 1000x2100 made out S.S 304 PVC Coated	2	Each			
	Stainless steel swing door Having window - 300x300mm with size of 800x2100 made out S.S 304 PVC Coated	1	Each			
1.20	Finishing with epoxy paint(two or more coat) at all locations prepared and applied as per manufactures specifications including approximate priming coat, preparation of surface, etc. complete					
a)	On concrete/ plaster work	125	Sqm			
1.21	Providing and laying 3mm thick epoxy resin based jointless antistatic flooring/skirting consisting of specially formulated epoxy resin of required shade/colour applied in three layers in order to ensure a permanent connection for the elimination of static electricity between the supporting base and the surface including scratch resistant coating, base screed of epoxy mortar as per requirement complete as per manufacture's specifications and as per directed. (work to be got executed through a specialised agency)	36	Sqm			
1.22	Providing and Laying Conductive tile in Operation theater and install with recommended adhesive on a level floor to get even joint with approved make like LG & equivalent or approved brand.Make u-shaped groove in the joint with a depth of 2/3rd or 4/5th to install welding bar and seam weld the joint using LG welding bar with hot air welding machine and cut the projecting welding bar.Done with manufacturer specifications.					
	Conductive tile 2mm thick	27	Sqm			

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				(in Rs.)	(in Rs.)	(in Rs.)
	Floor bright tiles 1.6mm thick					
1.23	X-RAY View Screen (Two Plates) 948x648x11mm x-rays viewing screen designed to provide high level of control luminance without flicker easy to clean and maintained via in an access door fitted outside wall of the theater. The outer box should be made up of rust free material. Illumination should be by high frequency fluorescent lamps with uniform level of illumination across the entire front panel, controlled by dimming ballast, mounted on hinged and removable gears trays. The front panel diffuser should be a glare free type sealed flush with inside face of operating theater wall should be equipped with eight spring loaded clips to secure the x-rays negative when in use. Lamps changing should be from the front of the panel	2	EACH			
1.24	Providing and fixing at all height false ceiling of 12.5 mm thick tapered edge gypsum board conforming to IS:2095 including providing and fixing of frame work made of special sections power pressed from M.S sheet and galvanised in accordance with zinc coating of grade 350 as per IS:277 and consisting of angle cleats of size 25mm wideX1.6mm thick with flanges of 22 mm and 37mm at 1200mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5mm diaX 40mm long with 6mm dia bolts to the angle hangers of 25X25X0.55 mm of required length, and other end of angle hanger fixed with nuts and bolts to G.I channels 45mmX15mmX.9mm running at rate of 1200mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help	75	Sqm			
	<b>Internal Electrical Work</b>					

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				(in Rs.)	(in Rs.)	(in Rs.)
2.01	Supplying and fixing 6-32 Amps rating single pole, 240 volts, Miniature Circuit Breaker (MCB) in the existing MCB DB complete with connections, testing and commissioning etc. as required.	EACH	6			
2.02	Wiring for light point/fan point with 1.5 sq.mm. PVC insulated, copper conductor cable (including 0.75 sqmm PVC insulated, copper conductor cable for earthing from switchboard to each point) in surface/recessed PVC conduit / PVC Channel on Aluminum partition complete as required.	POINT	10			
2.03	Wiring for 5A light plugs with 1.5 sq.mm. PVC insulated, copper conductor cable including 1.5 sqmm PVC insulated, copper conductor for earthing in surface/recessed PVC conduit as per technical specifications and as required.	POINT	8			
2.04	Wiring for power plug with 2x4 sqmm PVC insulated, copper conductor single core cable in existing surface/recessed PVC conduit / PVC channel alongwith 1.5 sqmm PVC insulated, copper conductor, single core cable for loop earthing as per technical specifications and as required.	Point	15			
2.05	Wiring for power plug with 2x6 sqmm PVC insulated, copper conductor single core cable in surface/recessed PVC conduit alongwith 1.5 sqmm PVC insulated, copper conductor, single core cable for loop earthing as per technical specifications and as required.	POINT	10			
2.06	Wiring for power plug with 4X4 sqmm PVC insulated, copper conductor single core cable in surface/recessed PVC conduit alongwith 1.5 sqmm PVC insulated, copper conductor, single core cable for loop earthing as per technical specifications and as required.	METER	120			

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				(in Rs.)	(in Rs.)	(in Rs.)
2.07	Wiring for circuit wiring / extending with 2X1.5 Sqmm with 1 no. loop earth wire PVC insulated, copper conductor, single core cable in surface/recessed PVC conduit along with 1.5 sqmm PVC insulated, copper conductor, single core cable for loop earthing complete as required.	METER	50			
2.08	Supplying and fixing modular metal / PVC box on surface or in recess including providing and fixing 3 pin 5/6 A modular socket outlet with shutters and 5/6 A modular type switch, base plate, modular cover plate, connections,MS/PVC box etc. and all civil works complete as required.	EACH	8			
2.09	Supplying and fixing modular metal / PVC box on surface or in recess including providing and fixing 3 pin 15/16 A modular socket outlet with shutters and 15/16 A modular type switch, base plate, modular cover plate, connections, etc. and all civil works complete as required.	EACH	10			
2.10	Supplying and fixing PVC channel of size up to 50 mm on surface including providing and fixing two nos. partitions, end caps, bends, cover plate, connections, etc. and all civil works complete as required.	METER	50			
2.11	Installation, testing and commissioning of prewired, fluorescent fittings of all types, complete with all accessories and tube etc.on false ceiling, including fixing ,Fixing materials, cutting and repair of false ceiling connections with 1.5 sqmm PVC insulated, copper conductor, single core cable etc. as required	EACH	20			
2..12	Supply and fixing of following sizes of conduit alongwith the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of conduit as recessed required					
	25 mm dia MS	METER	50			
	25 mm dia PVC	METER	50			

S. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
				(in Rs.)	(in Rs.)	(in Rs.)
2.13	Supply of clean room type Light fixture with cu ballast, starter, capacitor, tube / lamp M.S. body Housing of IP54 , Holder etc complete with all fixing accessories as required of Crompton/Philips/Bajaj make (Crompton -CRFW 1224 or eqult.) For OT Room	EACH	20			
2.14	Supplying and laying of PVC insulated Cu single core cable in existing conduit complete as required.					
	4x1.5 sq.mm cu	METER	150			
	2x1.5 sqmm cu	METER	150			
2.15	Supplying, installation, testing and commissioning of addressable type ionisation type smoke detector as required including tying with existing Edwards make FDA main panel	EACH	6			
2.16	Supplying, drawing, connecting and testing of 1x2 pair 0.61 mm dia annealed copper conductor PVC insulated PVC sheathed of under noted sizes telephone cable in existing conduit/trunking etc as required.	METER	60			
2.17	Providing and fixing of 20mm x 3mm copper strip duly PVC sleeved on surface or in recess for connections etc. as required.	METER	100			
2.18	Supplying and fixing modular metal / PVC box on surface or in recess including providing and fixing 4 pole 32 A modular MCB, connections, etc. and all civil works complete as required.	EACH	2			
2.19	Tile based and membrane type control panel mounted flush in the theatre wall, comprising of the following :-	EACH	2			
	1. No. Day Time clock					
	1. No. Lapse Time Clock					
	1. Set dimmer for peripheral / plainer lights					
	1. No. Hands free telephone					
	1 no Gas Alarm					
	1 No. Temp and Humidity					

S. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
				(in Rs.)	(in Rs.)	(in Rs.)
	<b>TOTAL</b>					
	<b>Technical Specification</b>					
	All CPWD technical specifications with upto date correction slips & manufacturer specifications wherever applicable shall be followed for the above works.					