

PART-E - SCHEDULE OF STAGE PAYMENTS

INDEX

Name of Work: **Construction of a Centre of Excellence in Healthcare R & D Facility - Includes Super-Specialty Hospital, PG Medical & Allied Education and Ancillary Facilities at IIT Guwahati campus of Assam Government-IITG Healthcare Foundation (AGIHF) on EPC Mode-III.**

Sub Head: Construction of **410 bed** Super-Specialty Hospital Block (G+6), Academic cum R&D Block ,Guest House cum Residents' Hostel (G+7), Service blocks & Gate houses, boundary walls and other miscellaneous works including Internal Water Supply, Sanitary Installations and drainage, Development works like UG Sumps, Terrace water Tanks, Water Treatment Plant, Sewage Treatment Plant, Effluent Treatment Plant, Rain Water Harvesting System, Internal Roads, Pathways, Parking facilities, Filtered and Unfiltered Water Supply Lines, Storm Water Drains, External Sewerage System, Service Trenches, landscaping Horticulture works, Electrical Installations, Fire Alarm System, Firefighting system, Lifts, Sub-station, DG sets, UPS, HVAC System, IBMS system, Solar water Heating System, Roof top solar plant, CCTV, LAN, IP based EPABX System, Audio Visual System, MGPS, Nurse Call System, External and Internal Signages, etc. (more specifically written in the detailed scope of work & GFC drawings) and their integration, making fit for occupation, Providing /Fixing Furniture items etc. all complete on Engineering, Procurement and Construction basis (EPC Mode-III).Procurement and Construction basis (EPC Mode-III).

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PART-E			
		Name of Work: Construction of a Centre of Excellence in Healthcare R & D Facility - Includes Super-Specialty Hospital, PG Medical & Allied Education and Ancillary Facilities at IIT Guwahati campus of Assam Government-IITG Healthcare Foundation (AGIHF) on EPC Mode-III.	
		Schedule of Stage Payments	
		All running / intermediate & final payments shall be made to the agency in accordance with the following schedule:	
H.N O	S.HNO	On completion of stage	Individual %age
1	1	Completion of Super Specialty (SS) Hospital Building in all respects as per scope of work (100.00% of the Quoted Amount for Item No. 1.0 of Financial Quote Part H) & as per NIT	
1	1.1	Civil Works of for SS Hospital Building	
1	1.1	Completion of RCC work & structural steel work	
1	1.1	RCC work	
1	1.1.1	Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 25% of total no.	2.140%
1	1.1.2	Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 50% of total no.	2.140%
1	1.1.3	Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 75% of total no.	2.140%
1	1.1.4	Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 100% of total no.	2.140%
1	1.1.5	Testing of piles - Initial and routine and Integrity	0.140%
1	1.1.6	Excavation, Laying lean concrete below pile caps, raft - 50% area of total area	0.150%
1	1.1.7	Excavation, Laying lean concrete below pile caps, raft - 100% area of total area	0.150%
1	1.1.8	Casting RCC pile caps, raft i/c reinforcement, form work -25% Area of total	2.620%
1	1.1.9	Casting RCC pile caps, raft i/c reinforcement, form work -50% Area of total	2.620%
1	1.1.10	Casting RCC pile caps, raft i/c reinforcement, form work -75% Area of total	2.620%
1	1.1.11	Casting RCC pile caps, raft i/c reinforcement, form work -100% Area total	2.620%
1	1.1.12	Casting RCC columns, shear walls, lift retaining wall upto bottom of grade slab i/c reinforcement, form work	0.330%
1	1.1.13	Filling earth over RCC caps, raft, ground i/c compaction to 95% proctor's density - 50% of total area	0.024%
1	1.1.14	Filling earth over RCC caps, raft, ground i/c compaction to 95% proctor's density - 100% of total area	0.024%
1	1.1.15	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 25% area of total	0.385%
1	1.1.16	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 50% area of total	0.385%

1	1.1.17	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 75% area of total	0.385%
1	1.1.18	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 100% area of total	0.385%
1	1.1.19	Casting RCC columns, shear walls, lift walls up to Ground Floor roof slab Level - 50% area	0.528%
1	1.1.20	Casting RCC columns, shear walls, lift walls up to Ground Floor roof slab Level - 100% area	0.528%
1	1.1.21	Casting of RCC staircase, beam and slab of Ground floor roof - 50% area	1.107%
1	1.1.22	Casting of RCC staircase, beam and slab of Ground floor roof - 100% area	1.107%
1	1.1.23	Casting RCC columns, shear walls, lift walls up to First Floor roof slab Level - 50% area	0.900%
1	1.1.24	Casting RCC columns, shear walls, lift walls up to First Floor roof slab Level - 100% area	0.900%
1	1.1.25	Casting of RCC staircase, beam and slab of First floor roof - 50% area	1.092%
1	1.1.26	Casting of RCC staircase, beam and slab of First floor roof - 100% area	1.092%
1	1.1.27	Casting RCC columns, shear walls, lift walls up to Second Floor roof slab Level - 50% area	0.516%
1	1.1.28	Casting RCC columns, shear walls, lift walls up to Second Floor roof slab Level - 100% area	0.516%
1	1.1.29	Casting of RCC staircase, beam and slab of Second floor roof - 50% area	1.092%
1	1.1.30	Casting of RCC staircase, beam and slab of second floor roof - 100% area	1.092%
1	1.1.31	Casting RCC columns, shear walls, lift walls up to Third Floor roof slab Level - 50% area	0.415%
1	1.1.32	Casting RCC columns, shear walls, lift walls up to Third Floor roof slab Level - 100% area	0.415%
1	1.1.33	Casting of RCC staircase, beam and slab of Third floor roof - 50% area	1.090%
1	1.1.34	Casting of RCC staircase, beam and slab of Third floor roof - 100% area	1.090%
1	1.1.35	Casting RCC columns, shear walls, lift walls up to Fourth Floor roof slab Level - 50% area	0.414%
1	1.1.36	Casting RCC columns, shear walls, lift walls up to Fourth Floor roof slab Level - 100% area	0.414%
1	1.1.37	Casting of RCC staircase, beam and slab of Fourth floor roof - 50% area	1.090%
1	1.1.38	Casting of RCC staircase, beam and slab of Fourth floor roof - 100% area	1.090%
1	1.1.39	Casting RCC columns, shear walls, lift walls up to Fifth Floor roof slab Level - 50% area	0.414%
1	1.1.40	Casting RCC columns, shear walls, lift walls up to Fifth Floor roof slab Level - 100% area	0.414%
1	1.1.41	Casting of RCC staircase, beam and slab of Fifth floor roof - 50% area	1.100%
1	1.1.42	Casting of RCC staircase, beam and slab of Fifth floor roof - 100% area	1.100%
1	1.1.43	Casting RCC columns, shear walls, lift walls up to sixth Floor roof slab Level - 50% area	0.600%

1	1.1.44	Casting RCC columns, shear walls, lift walls up to six Floor roof slab Level - 100% area	0.600%
1	1.1.45	Casting of RCC staircase, beam and slab of six floor roof - 50% area	1.100%
1	1.1.46	Casting of RCC staircase, beam and slab of sixth floor roof - 100% area	1.100%
1	1.1.47	Casting of RCC staircase, column, beam and slab, water tank and all other RCC work at terrace floor - 100% area	0.100%
1	1.1.48	Providing Antitermite treatment to all blocks	0.067%
1	1.1.49	Providing and fixing aluminium profile expansion joint treatment system on roof and vertical joint	0.033%
1	1.1.50	Providing and fixing aluminium profile expansion joint treatment system on floors	0.281%
1	1.2	Structural steel work	0.000%
1	1.2.1	Providing Structural steel work built up sections for columns, beams, purlins at all level i/c fabricating, erecting, primer and painting etc. complete	0.900%
1	1.2.2	Providing steel work for various misc. works with primer and painting etc. complete at all floors.	0.300%
1	1.3	Completion of all Masonry walls including RCC lintels, bands, mullions, stub columns with reinforcement and form work etc.	0.000%
1	1.3.1	All Masonry works for Ground Floor Level	0.780%
1	1.3.2	All Masonry works for First Floor Level	0.560%
1	1.3.3	All Masonry works for second Floor Level	0.500%
1	1.3.4	All Masonry works for third Floor Level	0.450%
1	1.3.5	All Masonry works for fourth Floor Level	0.450%
1	1.3.6	All Masonry works for fifth Floor Level	0.450%
1	1.3.7	All Masonry works for sixth Floor Level	0.450%
1	1.3.8	On completion of Masonry work up to terrace slab, Mumty, lift Machine room & terrace parapets.	0.080%
1	1.4	Internal plaster works on ceiling, walls	0.000%
1	1.4.1	Completion of internal plaster work up to Ground & First Floor Level	0.273%
1	1.4.2	Completion of internal plaster work up to Second & Third Floor Level	0.180%
1	1.4.3	Completion of internal plaster work up to Forth & Fifth Floor Level	0.155%
1	1.4.4	Completion of internal plaster work up to Sixth Floor Level, terrace floor, Mumty, lift Machine room	0.165%
1	1.5	External wall Finishing with Sintered porcelain large tiles / plaster from ground to parapet, Mumty top level	0.000%
1	1.5.1	External waterproof plaster below tile cladding / mumty / parapet on walls	0.044%
1	1.5.2	Sintered large porcelain tile cladding system - 25% area of total	0.600%
1	1.5.3	Sintered large porcelain tile cladding system - 50% area of total	0.600%
1	1.5.4	Sintered large porcelain tile cladding system - 75% area of total	0.600%
1	1.5.5	Sintered large porcelain tile cladding system - 100% area of total	0.600%

1	1.6	Completion of stone / tiles flooring, PCC floor including skirting, PCC required in sunken areas and below tile flooring to match levels at all levels	0.000%
1	1.6.1	Lean PCC below floors in sunken areas, leveling concrete in M10 / PCC 1:3:6 over AAC Broken blocks filling	0.179%
1	1.6.2	Prepolished Engineered Marble stone flooring and skirting	0.670%
1	1.6.3	Cement concrete flooring in mix 1:2:4 of required thickness below vinyl	0.164%
1	1.6.4	Polished granite minimum 18mm thick on counters, sills, ledge i/c moulding, polishing	0.050%
1	1.6.5	Polished and anti skid vitrified tile flooring & skirting with epoxy grouting of required size / shape and thickness	1.250%
1	1.6.6	Granite flooring in steps, s/c skirting and other areas as per drawings, at all floors including moulding, grinding and polishing.	0.400%
1	1.6.7	Kota stone flooring minimum 25mm thick, skirting and grinding and polishing.	0.300%
1	1.7	Completion of Waterproofing works i/c gola, plaster	0.000%
1	1.7.1	Terraces i/c mumty roof waterproofing with brick bat coba treatment, concrete golas, khurras at all blocks	0.300%
1	1.7.2	Waterproofing of sunken areas of toilets, kitchen, pantry, balconies etc. i/c protection plaster at all levels. Waterproofing of OH water tanks.	0.094%
1	1.7.3	Polyurea Waterproofing minimum 2 coats of landscape terrace / open terraces at lower floors i/c grading with concrete in slope, insulation	0.230%
1	1.8	Completion of aluminium rough sub frame, powder coated extruded aluminium profile door frames	0.000%
1	1.8.1	Natural aluminium rectangular tube subframe for doors, windows, ventilators, glazing's	0.083%
1	1.8.2	Powder coated aluminium extruded profile size section 100mm x 55mm x 2mm thick fixed with fasteners	0.206%
1	1.9	Completion of all ceramic & vitrified tile dado, granite dado, including window sills and jambs etc.	0.000%
1	1.9.1	Vitrified /ceramic tile dado in toilets, kitchen, pantry at all floors	0.234%
1	1.9.2	Polished granite / engineered marble dado, bands, in lift lobbies, corridors etc. at all floors	0.464%
1	1.10	On Completion of external Curtain glazing / Structural Glazing with DGU's, spandrel panel, insulation, Aluminum Panels, , etc.	0.000%
1	1.10.1	Supplying, fabricating, installing polyester powder coated curtain wall / structural glazing system on external façade as per elevations	1.232%

1	1.10.2	Supplying, fabricating and installing powder coated windows / ventilator shutters with SS stays, openable shutters in CW glazing	0.160%
1	1.10.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units -Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass - SKN including testing of system for wind pressure, water infiltration.	0.505%
1	1.10.4	Supply & installation of suspended Spider Glazing system including toughened glass with SS 316 grade spider fittings complete	0.480%
1	1.10.5	Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2, shadow box complete	0.204%
1	1.11	On completion of False ceiling works complete	0.000%
1	1.11.1	Providing Mineral fibre tiles false ceiling tiles of minimum size 595X595mm of approved texture, design and pattern of all NRC's with approved grid at all floors	1.140%
1	1.11.2	Providing and fixing wooden finish U Baffle Aluminium panel ceiling as approved at all floors	0.258%
1	1.11.3	GI Metal false Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop with grid at all floors	0.500%
1	1.11.4	12.5 mm thick tapered edge gypsum plain board / MR grade i/c frame work at all floors i/c making coves, providing trap doors	0.260%
1	1.11.5	Providing calcium silicate board ceiling with GI frame work i/c bulk heads for grid ceiling, trap doors	0.450%
1	1.12	On Completion of external louvers, WCP jalli / screens, ACP sheet cladding work complete	0.000%
1	1.12.1	Supply and installation of Z shape louvers polyester powder coated minimum 60 micron fixed with anchor fasteners at all levels.	0.155%
1	1.12.2	Supply and installation of mild steel frame work for aluminium louvers, WPC screens, ACP Cladding on portal etc. i/c primer and anti rust painting.	0.470%
1	1.12.3	Supply and installation of aluminium composite panel cladding on portal, other elements as per elevations, drawings at all levels.	0.560%
1	1.12.4	Supply and installation of wood composite panels / screens / jalis as per elevations, drawings at all levels.	0.100%
1	1.13	On completion of internal / external white cement based putty, anti bacterial plastic emulsion painting, oil bound distempering, white washing, enamel painting and finishing work	0.000%
1	1.13.1	White cement based putty on ceiling and walls at all floors	0.424%

1	1.13.2	Oil bound distemper, Synthetic enamel painting, while washing, primer on walls, ceiling, lift wells, shafts at all levels	0.063%
1	1.13.3	Exterior grade emulsion paint with primer on exterior surfaces at terrace and parapets at all levels	0.400%
1	1.13.4	Anti bacterial plastic emulsion paint on ceiling and walls at all floors	1.430%
1	1.14	On completion of fire doors, shaft doors i/c hardware	0.000%
1	1.14.1	Supply and installation of 120 minutes fire rated door frame and shutters with or without fire rated vision panel glass, SS butt hinges, sealing of joints of frame and walls	0.290%
1	1.14.2	Supplying and fixing SS fire rated hardware for fire and shaft doors like panic bar, trim, door closers, tower bolt, coordinator	0.055%
1	1.15	On completion of glass doors, glass paneling and mirrors etc.	0.000%
1	1.15.1	Providing and fixing 12mm thick frameless plate glass door shutters, glass panes in windows, ventilators, fixed glazing tempered / non tempered / mirrors in toilets	0.120%
1	1.15.2	Providing and fixing 6mm thick lacquered glass paneling on walls in lobbies	0.130%
1	1.16	On completion of interior wall finishing with PVC vinyl sheet, acoustic panels etc.	0.000%
1	1.16.1	Providing and fixing 1mm thick heterogeneous compact PVC (Poly Vinyl Wall Covering) for Interior wall area	0.450%
1	1.16.2	Providing and fixing Interior wall area with acoustic wall panels, fabric panels, prelaminated board and all other finishes except PVC vinyl, painting, vitrified tile cladding	0.780%
1	1.17	On completion of interior flooring & skirting finishing - Hospital grade PVC vinyl sheet, self leveling, laminated HDF flooring, skirting profiles	0.000%
1	1.17.1	Providing & applying self levelling on uneven subfloor using self leveling compound below PVC vinyl sheet , laminated HDF floors	0.210%
1	1.17.2	Providing and fixing 2 mm thick heterogeneous PVC (poly vinyl flooring) and skirting i/c making cove at all floors	1.050%
1	1.18	On completion of stainless steel 304 grade railing, glass railings with stainless steel supports	0.000%
1	1.18.1	Stainless steel 304 grade railings for staircases, balconies, terraces, double height areas, lobbies etc.	0.160%
1	1.18.2	Providing and fixing 1200mm high Laminated toughened glass railing (6 mm clear glass FT + 1.52 mm pvb film + 6 mm clear glass FT) with SS 316 adaptor & SS 316 balusters	0.150%
1	1.19	On completion of All type of door, windows, ventilators hardware	0.000%

1	1.19.1	All hardware like stainless steel 304 grade handles, tower bolts, mortice locks, cylinders, door stoppers, door buffers, SS kick plates, push plates, mop plates, floor springs, SS sign plates, SS door handles at all floors	0.630%
1	1.19.2	Door closers of all types at all floors	0.470%
1	1.20	On completion of Atrium laminated glass roof	0.000%
1	1.20.1	Supply fabricating and installation of FE 250 grade mild steel hollow section frame work for atrium glass roof including necessary bolts, removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns	0.680%
1	1.20.2	Providing and fixing laminated glass 6mm clear +1.52 mm PVB film + 8mm clear glass roofing i/c providing aluminium strip with epdm on the joints complete for leakage proof roof.	0.430%
1	1.21	On completion of All toilet / bath cubicles & urinal partition	0.000%
1	1.21.1	Toilet cubicles made from 12mm thick HPL board with all accessories as per GFC drawings & HPL urinal partitions	0.380%
1	1.22	Solar panels support structure consisting of Galvanised steel sections as per GFC	0.000%
1	1.22.1	Providing, fabricating galvanised steel framing to support solar panels for various height at various floors i/c fixing to roof slabs with bolts.	0.410%
1	1.23	Fixed laminated cabinets for kitchen, pantry, toilets	0.000%
1	1.23.1	Providing fixed laminated cabinets made from MR grade commercial board and pasted with 1 mm thick laminate on all sides, lock, SS handles complete	0.105%
1	1.24	On completion of entire work including treatment of Column guards, Roller Blinds, Curtains signage's, etc. and testing	
1	1.24.1	On completion of treatment of Column guards, signage's, Roller Blinds, Curtains etc.	0.630%
1	1.2.	Internal Water supply, Sanitary Installation and Drainage work up to first manhole including preparation of shop drawings	
1	1.2.1	Completion of Internal grid of water supply CPVC concealed and exposed piping 20mm to 40mm dia for ground and first floor level i/c thermal insulation complete	0.142%
1	1.2.2	Completion of Internal grid of water supply CPVC concealed and exposed piping 20mm to 40mm dia for second and third floor level i/c thermal insulation complete	0.142%
1	1.2.3	Completion of Internal grid of water supply CPVC concealed and exposed piping 20mm to 40mm dia for fourth, fifth, sixth and terrace floor level i/c thermal insulation complete	0.142%
1	1.2.4	Completion of exposed CPVC SCH-40 piping 50mm to 150mm dia up to Terrace Floor level and terrace water tanks	0.125%

1	1.2.5	Completion of sound insulated Polypropylene piping system with 3 layer pipe, colour, push-fit type, with all necessary fittings from 40mm to 160mm dia at ground and first floor levels	0.178%
1	1.2.6	Completion of sound insulated Polypropylene piping system with 3 layer pipe, colour, push-fit type, with all necessary fittings from 40mm to 160mm dia at second and third floor levels	0.178%
1	1.2.7	Completion of sound insulated Polypropylene piping system with 3 layer pipe, colour, push-fit type, with all necessary fittings from 40mm to 160mm dia at fourth, fifth, sixth and terrace floor levels	0.178%
1	1.2.8	On fixing of forged brass ball valves , butter fly valves	0.036%
1	1.2.9	On completion of uPVC pipes 110mm / 160mm OD pipe i/c fittings complete	0.178%
1	1.2.10	SITC of Micro Processor Controlled air cooled Heat pump delivering actual capacity, Nominal Input Power - 21.5 KW, Output Heating capacity - 70 kW complete system - 3nos.	0.142%
1	1.2.11	SITC of SS 316 horizontal hot water storage tank with 4 mm thickness suitable for minimum 5 Kg /Sqm working pressure, 7500 litres capacity - 2no	0.178%
1	1.2.12	On supply and fixing of white Poly propylene (PP) sink with C.I bracket, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete	0.062%
1	1.2.13	On supply and fixing of white vitreous china wash basin with special fabricated brackets painted white, faucets as required, 32 mm C.P. brass waste.32 mm C.P. brass bottle trap & pipe to wall with rubber adopter for waste connection and C.P. brass wall flange	0.080%
1	1.2.14	On supply and fixing urinals with fittings complete	0.044%
1	1.2.15	Supply and fixing of water supply fittings and fixtures - CP mixer, faucet, bib cock etc. all complete	0.036%
1	1.2.16	Supply and fixing of wall hung WC with cover - 50% of total nos.	0.053%
1	1.2.17	Supply and fixing of wall hung WC with cover - 100% of total nos.	0.053%
1	1.2.18	On completion of all items not mentioned above but shown in GFC drawings / required to complete work	0.036%
1	1.2.19	On completion of entire work and testing	0.017%
1	1.3	E & M Works of Hospital Building	
1	1.3	Internal Electrical works including MDB's, Light Fixture, fans	
1	1.3.1.1	Laying of Conduit and junction boxes for light / ceiling fan / exhaust fan points, light & power plugs for all floors in recess / surface complete	0.100%
1	1.3.1.2	Drawing PVC insulated copper wires 1.5 sqmm in conduits for light / ceiling fan / exhaust fan points, call bell points for ground, first and second floor complete	0.100%
1	1.3.1.3	Drawing PVC insulated copper wires 1.5 sqmm in conduits for light / ceiling fan / exhaust fan points, call bell points for third floor to terrace floor, complete	0.100%

1	1.3.1.4	Fixing of modular switches & connections at all floors for light / ceiling fan / exhaust fan points, call bell points, complete	0.100%
1	1.3.1.5	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for ground, first and second floor complete	0.343%
1	1.3.1.6	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for third floor to terrace floor, complete	0.343%
1	1.3.1.7	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for ground and first floor complete	0.756%
1	1.3.1.8	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for second and third floor complete	0.756%
1	1.3.1.9	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for fourth floor to terrace, complete	0.756%
1	1.3.1.10	Wiring for circuit/ submain wiring along with earth wire with various sizes of FRLS PVC insulated copper conductor, single core cable at all floors in MS conduits	0.450%
1	1.3.1.11	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 A modular socket outlet and 5/6 A modular switch, connections and 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. at all floors	0.090%
1	1.3.1.12	Supply & fixing GI RACEWAY- (Fabricated from 1.6 mm thick GI Sheet) race ways for electrical & LV wiring including Fixing Bracket, Coupler, neoprene gasket in joints, bends, sockets cutting the floor & jamming the race way/ hanging in ceiling, supporting arrangement of all sizes at all floors	0.260%
1	1.3.1.13	Supplying and fixing of MV distribution boards - single pole, three pole with all types of MCB, DP switch, RCCB etc. for ground, first and second floor complete	0.225%
1	1.3.1.14	Supplying and fixing of MV distribution boards - single pole, three pole with all types of MCB, DP switch, RCCB etc. for third floor to terrace floor complete	0.225%

1	1.3.1.15	Supplying and fixing of Main distribution boards - for light & power, UPS, ventilation, AHU's, lifts, OT's etc. for ground & first floor complete	0.630%
1	1.3.1.16	Supplying and fixing of Main distribution boards - for light & power, UPS, ventilation, AHU's, lifts, OT's etc. for second and third floor etc. complete	0.630%
1	1.3.1.17	Supplying and fixing of Main distribution boards - for light & power, UPS, ventilation, AHU's, lifts, OT's etc. for fourth, fifth, sixth & terrace floor etc. complete	0.610%
1	1.3.1.18	On SITC of LED Surface / concealed mounted Down lighters as per GFC at all floors	0.018%
1	1.3.1.19	On SITC of LED Batten in 36W / 18 W / Integral LED 4ft IP65 batten /recessed mounted 30W-3000lm Round Shape Adjustable spot light COB type, at all floors	0.020%
1	1.3.1.20	On SITC of recessed mounted 2X2 LED panel light fixtures of all types with wattage at ground, first & second floors	0.360%
1	1.3.1.21	On SITC of recessed mounted 2X2 LED panel light fixtures of all types with wattage at third, fourth, fifth, sixth floors	0.360%
1	1.3.1.22	On SITC of LED based suspended standalone 4ft. Luminaire, LED strip light, bulk heads etc. at all floors	0.061%
1	1.3.1.23	On completion of all balance miscellaneous activities related to electrical works i/c lighting conductors not mentioned above at required locations.	0.010%
1	1.3.4	SITC of UPS system	
1	1.3.4.1	On Supply of True Modular UPS System consisting of 400 KVA /400 KW UPS Frame with 6x60 KW Hot Swappable Modules at unity power factor output to provide (n+1) redundancy to 300kVA/kW load -For Small Medical & Office Equipment	0.225%
1	1.3.4.2	On Supply of True Modular UPS System consisting of 200 KVA + 200KVA Frame in N+N Configuration Each 200KVA with 6 x 25 KW Hot Swappable Modules at unity power factor output and expansion margin till 200KVA in future For OT	0.240%
1	1.3.4.3	On Supply of 3 x 120kVA Monolithic UPS in parallel redundant (n+1) configuration at 0.99 input power factor with SNMP card, compatible for BMS connectivity on back net - For Hospital Elevators	0.196%
1	1.3.5	Fire alarm system	
1	1.3.5.1	On Supplying and Laying of 2 x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armoring & FRLS outer sheath for all floors	0.111%
1	1.3.5.2	On SITC of Addressable 2 wire Multi-Criteria Detector (Photoelectric Smoke + Heat detection) with built-in short circuit isolator, above and below ceiling at ground, first and second floors, complete	0.184%

1	1.3.5.2	On SITC of Addressable 2 wire Multi-Criteria Detector (Photoelectric Smoke + Heat detection) with built-in short circuit isolator, above and below ceiling at third floor and above upto terrace floor complete	0.184%
1	1.3.5.3	On SITC of Addressable 5 loop Microprocessor based intelligent and modular Fire Alarm Panel, 100% electronically addressable system & repeater panel complete as per particular specifications	0.085%
1	1.3.5.4	On SITC of balance items like thermal heat detectors, smoke indicators, Addressable 2 wire break glass manual call point, Addressable loop powered Wall mount sounder with strobe, 2 Wire monitor module, 2 Wire Control module, Zone Fire Fighter Telephone System etc. complete	0.084%
1	1.3.5.5	SITC of GUI based software with capacity to map the complete detector & devices of the fire alarm system.	0.021%
1	1.3.6	Lifts	
1	1.3.6.1	On supply of 50% lifts for passengers, doctors, service, fire for all towers	0.710%
1	1.3.6.2	On supply of 100% lifts for passengers, doctors, service, fire for all towers	0.710%
1	1.3.6.3	On installation of 50% lifts	0.084%
1	1.3.6.4	On installation of 100% lifts	0.084%
1	1.3.6.5	On testing, commissioning of all lifts	0.040%
1	1.3.6.6	On getting certificate & license of Local lift authority	0.005%
1	1.3.7	Internal CCTV system	
1	1.3.7.1	On SITC of 24 Port POE Access Switches with switching capacity of 92 Gbps, forwarding performance 68 Mpps, having 24 x 10/100/1000BASE-T PoE (RJ45)	0.147%
1	1.3.7.2	Supply & laying of CAT 6 U/UTP LSZH Cable, Flame Rating IEC 60332-1, 23 AWG solid copper conductors in accordance to TIA/EIA 568.2-D (Category 6) / Supply and laying of armoured 06 Core Single mode (OS2) 9/125 Fiber Cable, ITU G.652.D, G.657A1,	0.034%
1	1.3.7.3	On SITC of 4MP@ 30 fps or better, Vari Focal Dome IR Camera having 1/3" Progressive Scan CMOS; Resolution: 2592(H) X 1520 (V) / SITC of 4MP@ 30 fps or better, Outdoor type Vari Focal Bullet IR Camera having 1/3" Progressive Scan CMOS; Resolution: 2592(H) X 1520 (V) o - 50% of total cameras complete	0.154%
1	1.3.7.4	On SITC of 4MP@ 30 fps or better, Vari Focal Dome IR Camera having 1/3" Progressive Scan CMOS; Resolution: 2592(H) X 1520 (V) / SITC of 4MP@ 30 fps or better, Outdoor type Vari Focal Bullet IR Camera having 1/3" Progressive Scan CMOS; Resolution: 2592(H) X 1520 (V) o - 50% of total cameras complete	0.154%
1	1.3.7.5	ON SITC of balance and miscellaneous items as per schedule required	0.143%
1	1.3.7.6	On SITC of All in one solution with 64 Channel NVR/VMS Solution with full loaded licenses, SITC of Surveillance Grade 12TB SATA Hard Disk for above VMRs, complete as per schedule	0.142%

1	1.3.8	STRUCTURED CABLING (PASSIVE), DATA, IPABX SYSTEM	
1	1.3.8.1	SITC of Category 6A U/UTP LSZH Cable, Flame Rating IEC 60332-1, 23 AWG solid copper conductors in accordance to TIA/EIA 568.2-D for all floors	0.088%
1	1.3.8.2	On SITC of passive components complete like 6F 1U x 19" LIU Loaded / 24F 1U x 19" LIU Loaded with Single mode OS2 LC Adapters etc. as per schedule at all floors	0.017%
1	1.3.8.3	On SITC of armoured 06 Core Single mode (OS2) 9/125 Fiber Cable, ITU G.652.D, G.657A1,	0.009%
1	1.3.8.4	On SITC of all types of Category 6A RJ45 Unshielded Modular Jack at all floors	0.122%
1	1.3.8.5	On SITC of balance passive items as required to complete the system	0.022%
1	1.3.8.6	SITC of 24 Port POE Access Switches with switching capacity of 92 Gbps, forwarding performance 68 Mpps, having 24 x 10/100/1000BASE-T PoE (RJ45) with minimum PoE budget of 180W with 2 x Combo Gigabit RJ-45/ SFP ports and 2 x 10G SFP+ uplink ports complete as per specifications at all floors	0.464%
1	1.3.8.7	SITC of Pure IP based Voice solution with 1x PRI Trunk lines (30 Ch) Circuit with CLIP Facility, 215 IP users License, 01 Nos. IP Operator Console, 28 Party Conference, Speed Dial, Music on Hold, Internal/ External ring difference, Call Barring, Call Pickup, TEC should be with GR Number complete as required.	0.138%
1	1.3.8.8	SITC of Wireless Indoor Access Point. The AP should support 802.11ax with aggregated throughput of 1.7 Gbps. and SITC of Wireless Controller complete as per schedule for first 3 floors (GF + FF + SF)	0.245%
1	1.3.8.9	SITC of Wireless Indoor Access Point. The AP should support 802.11ax with aggregated throughput of 1.7 Gbps. and SITC of Wireless Controller complete as per schedule for balance floors - third and above	0.245%
1	1.3.8.10	On SITC of balance active components like fire wall, core switch, 10G Single Mode SFP+ fiber Modules etc. complete as per schedule	0.255%
1	1.3.9	PUBLIC ADDRESS SYSTEM	
1	1.3.9.1	Supplying and Laying of 2 C X 1.5 Sq. mm multi stranded twisted shielded FRLS Copper cable.	0.011%
1	1.3.9.2	SITC of all types Ceiling Mount Speakers & Wall Mount Speakers at all floors	0.027%
1	1.3.9.3	SITC of 500W, Class -D Amplifier, 70/100V with rated power 500W & 6 Zone PA Controller & Voice command keypad 6 zone, with microphone assembly complete as required..	0.056%
1	1.3.10	SITC of MATV System	
1	1.3.10.1	On laying of mild steel conduit with box	0.020%
1	1.3.10.2	On laying of RG-11, RG-6 and cat-6 cables i/c testing, commissioning	0.009%
1	1.4.	Fire fighting system	
1	1.4.1	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 25mm dia to 65mm dia for ground and first floors	0.160%

1	1.4.2	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 25mm dia to 65mm dia for second and third floors	0.160%
1	1.4.3	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 25mm dia to 65mm dia for fourth, fifth and sixth floors	0.160%
1	1.4.4	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 80mm dia to 100mm dia for ground, first & second floors	0.100%
1	1.4.5	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 80mm dia to 100mm dia for third & above floors	0.100%
1	1.4.6	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 150mm dia for 50% of total length	0.126%
1	1.4.7	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe 80mm dia at all floors	0.021%
1	1.4.8	Supplying and fixing single headed Stainless steel internal hydrant valve with instantaneous Stainless Steel coupling of 63 mm dia with cast iron wheel at all floors	0.023%
1	1.4.9	SITC of butterfly valve of PN 1.6 rating with bronze / gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets of all sizes 80/100/150 mm dia at all floors	0.034%
1	1.4.10	Supplying and fixing 40m long first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete at all floors	0.044%
1	1.4.11	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) stainless steel grade 304 at all floors	0.033%
1	1.4.12	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories - pendent / upright for ground, first and second floors	0.078%
1	1.4.13	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories - pendent / upright for third and above floors	0.078%
1	1.4.14	SITC of sprinkler flexible pipe (UL Listed) of stainless steel complete of length 700mm / 1000mm / 1200mm for ground, first and second floors	0.111%
1	1.4.15	SITC of sprinkler flexible pipe (UL Listed) of stainless steel complete of length 700mm / 1000mm / 1200mm for third and above floors	0.111%

1	1.5.1	HVAC - low side works	
1	1.5.1.1	On Supplying and fixing of mild steel chilled water piping with 75mm insulation at all floors - 150mm / 250 mm dia	0.101%
1	1.5.1.2	On Supplying and fixing of mild steel chilled water piping with 50mm insulation at GF, FF & second floors - 20mm to 125 mm dia	0.180%
1	1.5.1.3	On Supplying and fixing of mild steel chilled water piping with 50mm insulation at TF, fourth, fifth & sixth floors - 20mm to 125 mm dia	0.180%
1	1.5.1.4	On Supplying and fixing of factory fabricated GSS sheet metal rectangular ducting with supports as per IS 655-2006 complete with neoprene rubber gaskets of all thickness at ground, first & second floors	0.234%
1	1.5.1.5	On Supplying and fixing of factory fabricated GSS sheet metal rectangular ducting with supports as per IS 655-2006 complete with neoprene rubber gaskets of all thickness at third and above floors	0.234%
1	1.5.1.6	On Supplying and fixing of site fabricated GSS sheet metal rectangular ducting with supports as per IS 655-2006 complete with neoprene rubber gaskets of all thickness at all floors	0.050%
1	1.5.1.7	On SITC of floor mounted air handling units for non critical areas of various airflows as per schedule & GFC - 33% of total AHU nos.	0.192%
1	1.5.1.8	On SITC of floor mounted air handling units for non critical areas of various airflows as per schedule & GFC - 66% of total AHU nos.	0.192%
1	1.5.1.9	On SITC of floor mounted air handling units for non critical areas of various airflows as per schedule & GFC - 100% of total AHU nos.	0.192%
1	1.5.1.10	On SITC of floor mounted air handling units for critical areas of various airflows as per schedule & GFC - 33% of total AHU nos.	0.221%
1	1.5.1.11	On SITC of floor mounted air handling units for critical areas of various airflows as per schedule & GFC - 66% of total AHU nos.	0.221%
1	1.5.1.12	On SITC of floor mounted air handling units for critical areas of various airflows as per schedule & GFC - 100% of total AHU nos.	0.221%
1	1.5.1.13	On SITC of floor mounted air handling units for OT of various airflows as per schedule at OT floors	0.060%
1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for ground floor complete	0.250%
1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for first floor complete	0.250%

1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for second floor complete	0.245%
1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for third floor complete	0.250%
1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for fourth floor complete	0.250%
1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for fifth floor complete	0.250%
1	1.5.1.14	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for sixth floor complete	0.250%
1	1.5.1.13	SITC of electrostatic filter single module - 1000 cfm as per specifications, complete	0.136%
1	1.5.1.14	SITC of electrostatic filter single module - 2000 cfm as per specifications, complete	0.314%
1	1.5.1.15	On SITC of Pressure independent variable air volume Terminal units 100 to 3000 cfm , suitable for installation in horizontal ducts as per schedule complete at all floors.	0.250%
1	1.5.1.16	On SITC of Heat recovery units of all sizes factory fabricated Double skinned construction with Thermal Break Profile with (0.8mm) pre coated GSS from outside & (0.8mm) GSS on inside with PUF Insulation at ground, first and second floors	0.204%
1	1.5.1.16	On SITC of Heat recovery units of all sizes factory fabricated Double skinned construction with Thermal Break Profile with (0.8mm) pre coated GSS from outside & (0.8mm) GSS on inside with PUF Insulation at third & above floors	0.201%
1	1.5.1.17	On SITC of AHU coil mounted UVGI system of all sizes at all floors	0.226%
1	1.5.1.18	On SITC of Duct/Plenum mounted UVGI system of all sizes at all floors	0.150%
1	1.5.1.19	On SITC of HVAC dedicated VFDs suitable for the 4/2.2/1.5 KW AHU fan motor capacity with IP 21 complete as per specifications at all floors	0.210%

1	1.5.1.20	On SITC of powder coated extruded aluminium Supply Air Grills/ exhaust with aluminium volume control dampers / supply / return grills with louvers, return air diffusers as at all floors per specifications.	0.156%
1	1.5.1.21	On completion of balance items as required to complete the system as pr GFC drawings and schedules at all floors	0.912%
1	1.6.1	Pressurized mechanical ventilation system	
1	1.6.1	On SITC of smoke exhaust long casing (GSS) Vane/Tube Axial flow type fans, complete of various cfm's at various locations.	0.134%
1	1.6.2	On SITC of supply air long casing(GSS) Vane/Tube Axial flow type fans complete with aluminium alloy blades with aero foil design, bird screen, flexible connection & gravity louvers complete of various cfm's at various locations.	0.136%
1	1.6.3	On SITC of air washer CELDEK FILL package type air cooling unit with minimum 90% saturation efficiency	0.040%
1	1.6.4	On SITC of in line fans at all floors of required cfm	0.007%
1	1.6.5	On SITC of tube axial flow fans long casing(GSS) Vane/Tube Axial flow type supply air fans complete with aluminium alloy blades with aero foil design, bird screen, flexible connection & gravity louvers at outlet of various cfm's at various locations.	0.065%
1	1.6.6	On SITC of centrifugal fans with cabinet DIDW centrifugal fan, GI construction of various cfm's at various locations.	0.055%
1	1.6.7	On SITC of wall mounted propeller type exhaust fans shall be of Axial Flow type with light weight type PVC/ aluminium impellers with aero foil contours for high efficiency and low noise of 450/230/150 mm at various locations.	0.003%
1	1.15	Internal Signages In Building	
1	1.15.1	On supply & fixing of internal signage for fire, lifts, rooms, corridors, lobbies staircases etc. as per GFC drawings	0.032%
1	1.16	MEDICAL GAS PIPELINE SYSTEM	
1	1.16.1	SITC of Medical Grade Copper Tube/Pipes including all type of accessories Like, Tee, Elbow, Valves, etc. complete from 12mm to 22mm OD for ground & first floor complete	0.188%
1	1.16.2	SITC of Medical Grade Copper Tube/Pipes including all type of accessories Like, Tee, Elbow, Valves, etc. complete from 12mm to 22mm OD for second & third floor complete	0.188%
1	1.16.3	SITC of Medical Grade Copper Tube/Pipes including all type of accessories Like, Tee, Elbow, Valves, etc. complete from 12mm to 22mm OD for fourth, fifth & sixth floor complete	0.188%
1	1.16.4	SITC of Medical Grade Copper Tube/Pipes including all type of accessories Like, Tee, Elbow, Valves, etc. complete from 28mm to 42mm OD for all floors complete	0.342%
1	1.16.5	SITC of Medical Grade Copper Tube/Pipes including all type of accessories Like, Tee, Elbow, Valves, etc. complete from 54mm to 108mm OD for all locations complete	0.320%

1	1.16.6	SITC of Quardplex Compressed Air system complete with minimum capacity 04 nos. The medical air compressors should be of oil- lubricated rotary screw air-cooled design . Each air compressor should have a requisite capacity at 3000lpm to formulate the total plant capacity of 10000 LPM as primary and 10000 LPM of secondary.	0.230%
1	1.16.7	SITC of Quardplex Vacuum Central System Complete with 04 nos. Rotary vane vacuum pumps, Total plant capacity 6500 LPM as Primary with additional full capacity standby system as per relevant standard with Filter, interconnecting pipes, NRV, auto switch gear assy., exhaust silencer , vacuum receiver, bacterial filter, vacuum gas outlets etc. complete	0.387%
1	1.16.8	SITC of Bed Head Panel without Out - Let - 2 / 3 / 6 gas outlet at all floors	0.323%
1	1.16.9	SITC of Oxygen system complete at all locations.	0.179%
1	1.16.10	SITC of Nitrous Oxide System complete at all locations.	0.012%
1	1.16.11	SITC of Carbon Oxide System complete at all locations.	0.016%
1	1.16.12	SITC of medical compressed air system consisting of receiver, filtration system, gas outlets, etc. complete at all locations	0.125%
1	1.16.13	SIT of all types of valves, AGSS plant system, Digital alarm system, miscellaneous items	0.146%
1	1.17	Nurse calling System	
1	1.17.1	Supply & laying of ISI marked 25 mm conduit with accessories at all floors	0.010%
1	1.17.2	Supply and laying including termination of cabling in existing conduits including terminations (RJ45) at all floors	0.017%
1	1.17.3	Supply, Installation testing & commissioning of UL/ VDE 0834 certified/ approved System Switch/ Controller at all locations as per GFC drawings.	0.050%
1	1.17.4	On SITC of UL/ VDE 0834 certified/ approved Nurse Station Terminal at all locations as per GFC drawings.	0.094%
1	1.17.5	Supply and fixing of External Monitor - To display call generation on external bigger display	0.038%
1	1.17.6	ON SITC of UL/ VDE 0834 certified/ approved Patient Handset - Without Speech	0.070%
1	1.17.7	ON SITC of UL/ VDE 0834 certified/ approved Bed Head Unit for Patient Terminal	0.067%
1	1.17.8	On SITC of UL/ VDE 0834 certified/ approved Backbone Switch:	0.033%
1	1.17.9	on SITC of balance items as per schedule and specifications	0.139%
1		TOTAL	100.000%
2	2.1	Completion of Academic cum R & D Building in all respects as per scope of work (100.00% of the Quoted Amount for Item No. 2.0 of Financial Quote Part H) & as per NIT	
2	2.1.1	Excavation, Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 50% of total no.	2.700%

2	2.1.2	Excavation, Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 100% of total no.	2.700%
2	2.1.3	Testing of piles - Initial and routine and Integrity	0.120%
2	2.1.4	Laying lean concrete below pile caps, raft - 50% area of total area	0.200%
2	2.1.5	Laying lean concrete below pile caps, raft - 100% area of total area	0.200%
2	2.1.6	Casting RCC pile caps, raft, tie beams i/c reinforcement, form work -50% Area of total	2.870%
2	2.1.7	Casting RCC pile caps, raft, tie beams i/c reinforcement, form work -100% Area total	2.870%
2	2.1.8	Casting RCC columns, shear walls, lift retaining wall upto bottom of grade slab i/c reinforcement, form work	0.760%
2	2.1.9	Filling earth over RCC caps, raft, ground i/c compaction to 95% proctor's density - 100% of total area	0.310%
2	2.1.10	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 50% of total area	0.390%
2	2.1.11	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 100% area of total	0.390%
2	2.1.12	Casting RCC columns, shear walls, lift walls up to Ground Floor roof slab Level - 100% area	1.180%
2	2.1.13	Casting of RCC staircase, beam and slab of Ground floor roof - 100% area	2.770%
2	2.1.14	Casting RCC columns, shear walls, lift walls up to First Floor roof slab Level - 100% area	1.180%
2	2.1.15	Casting of RCC staircase, beam and slab of First floor roof - 100% area	2.770%
2	2.1.16	Casting RCC columns, shear walls, lift walls up to Second Floor roof slab Level - 100% area	1.180%
2	2.1.17	Casting of RCC staircase, beam and slab of second floor roof - 100% area	2.770%
2	2.1.18	Casting RCC columns, shear walls, lift walls up to Third Floor roof slab Level - 100% area	1.180%
2	2.1.19	Casting of RCC staircase, beam and slab of Third floor roof - 100% area	2.770%
2	2.1.20	Casting RCC columns, shear walls, lift walls up to Fourth Floor roof slab Level - 100% area	1.180%
2	2.1.21	Casting of RCC staircase, beam and slab of Fourth floor roof - 100% area	2.770%
2	2.1.22	Casting of RCC staircase, column, beam and slab, water tank and all other RCC work at terrace floor - 100% area	1.160%
2	2.1.23	Providing Antitermite treatment to all blocks & misc. items to complete the structural RCC works	0.480%

2	2.1.24	Structural steel work	
2	2.1.25	Providing Structural steel work in hollow round pipes in façade and built up sections i/c foundation plates, i/c fabricating, erecting, exterior grade primer and exterior grade PU painting etc. complete	1.630%
2	2.1.26	Providing Structural steel work built up sections at terrace level i/c fabricating, erecting, primer and painting etc. complete	0.240%
2	2.1.26	Providing steel work for various misc. works with primer and painting etc. complete at all floors.	0.350%
2	2.1.27	Completion of all Masonry walls including RCC lintels, bands, mullions, stub columns with reinforcement and form work etc.	
2	2.1.28	All Masonry works for Ground Floor Level	0.990%
2	2.1.29	All Masonry works for First Floor Level	0.990%
2	2.1.30	All Masonry works for second Floor Level	0.990%
2	2.1.31	All Masonry works for third Floor Level	0.990%
2	2.1.32	All Masonry works for fourth Floor Level	0.990%
2	2.1.33	On completion of Masonry work up to terrace slab, Mumty, lift Machine room & terrace parapets.	0.026%
2	2.1.34	Internal plaster works on ceiling, walls	
2	2.1.35	Completion of internal plaster work up to Ground & First Floor Level	0.270%
2	2.1.36	Completion of internal plaster work up to Second & Third Floor Level	0.270%
2	2.1.37	Completion of internal plaster work up to Fourth Floor Level, terrace floor, Mumty, lift Machine room	0.160%
2	2.1.38	External wall Finishing with Sintered porcelain large tiles / plaster from ground to parapet, Mumty top level	
2	2.1.39	External waterproof plaster below tile cladding / mumty / parapet on walls	0.033%
2	2.1.40	Sintered large porcelain tile cladding system - 50% area of total	4.180%
2	2.1.41	Sintered large porcelain tile cladding system - 100% area of total	4.180%
2	2.1.42	Completion of stone / tiles flooring, PCC floor including skirting, PCC required in sunken areas and below tile flooring to match levels at all levels	
2	2.1.43	Lean PCC below floors in sunken areas, leveling concrete in M10 / PCC 1:3:6 over AAC Broken blocks filling	0.070%
2	2.1.44	Cement concrete flooring in mix 1:2:4 of required thickness below vinyl , laminated HDF flooring	0.015%
2	2.1.45	Polished granite minimum 18mm thick on counters, sills, ledge i/c moulding, polishing at all floors	0.057%
2	2.1.46	Polished and anti skid vitrified tile flooring & skirting with epoxy grouting of required size / shape and thickness at all floors	3.520%
2	2.1.47	Granite flooring in steps, s/c skirting and other areas as per drawings, at all floors including moulding, grinding and polishing.	0.550%

2	2.1.48	Kota stone flooring minimum 25mm thick, skirting and grinding and polishing.	0.420%
2	2.1.49	Completion of Waterproofing works i/c gola, plaster	
2	2.1.50	Terraces i/c mumty roof waterproofing with brick bat coba treatment, concrete golas, khurras at all blocks	0.630%
2	2.1.51	Waterproofing of sunken areas of toilets, kitchen, pantry, balconies etc. i/c protection plaster at all levels. Waterproofing of OH water tanks.	0.140%
2	2.1.52	Polyurea Waterproofing minimum 2 coats of landscape terrace / open terraces at lower floors i/c grading with concrete in slope, insulation	0.410%
2	2.1.53	Completion of aluminium rough sub frame, powder coated extruded aluminium profile door frames	
2	2.1.54	Natural aluminium rectangular tube subframe for doors, windows, ventilators, glazing's	0.100%
2	2.1.55	Powder coated aluminium extruded profile size section 100mm x 55mm x 2mm thick fixed with fasteners	0.200%
2	2.1.56	Completion of all ceramic & vitrified tile dado, granite dado, including window sills and jambs etc.	
2	2.1.57	Vitrified /ceramic tile dado in toilets, kitchen, pantry at all floors	0.290%
2	2.1.58	Polished granite dado, bands, in lift lobbies, corridors etc. at all floors	0.540%
2	2.1.59	On Completion of external Curtain glazing / Structural Glazing with DGU's, spandrel panel, insulation, Aluminum Panels, , etc.	
2	2.1.60	Supplying, fabricating, installing polyester powder coated curtain wall / structural glazing system on external façade as per elevations	1.680%
2	2.1.61	Supplying, fabricating and installing powder coated windows / ventilator shutters with SS stays, openable shutters in CW glazing	0.180%
2	2.1.62	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units -Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass - SKN including testing of system for wind pressure, water infiltration.	0.940%
2	2.1.63	Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2, shadow box complete	0.220%
2	2.1.64	On completion of False ceiling works complete	
2	2.1.65	Providing Mineral fibre tiles false ceiling tiles of minimum size 595X595mm of approved texture, design and pattern of all NRC's with approved grid at all floors	1.450%
2	2.1.66	Providing and fixing wooden finish U Baffle Aluminium panel ceiling as approved at all floors	1.200%

2	2.1.67	GI Metal false Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop with grid at all floors	0.590%
2	2.1.68	12.5 mm thick tapered edge gypsum plain board / MR grade i/c frame work at all floors i/c making coves, providing trap doors	0.480%
2	2.1.69	Providing calcium silicate board grid ceiling with powder coated frame work i/c bulk heads for grid ceiling, trap doors	0.570%
2	2.1.70	On Completion of external louvers, WCP jalli / screens, ACP sheet cladding work complete	
2	2.1.71	Supply and installation of Z shape louvers polyester powder coated minimum 60 micron fixed with anchor fasteners at all levels.	0.860%
2	2.1.72	Supply and installation of mild steel frame work for aluminium louvers, WPC screens, ACP Cladding on portal etc. i/c primer and anti rust painting.	
2	2.1.73	Supply and installation of aluminium composite panel cladding on portal, other elements as per elevations, drawings at all levels.	1.970%
2	2.1.74	Supply and installation of wood composite panels / screens / jalis as per elevations, drawings at all levels.	
2	2.1.75	On completion of internal / external white cement based putty, anti bacterial plastic emulsion painting, oil bound distempering, white washing, enamel painting and finishing work	
2	2.1.76	White cement based putty on ceiling and walls at all floors	0.530%
2	2.1.77	Oil bound distemper, Synthetic enamel painting, while washing, primer on walls, ceiling, lift wells, shafts at all levels	0.050%
2	2.1.78	Exterior grade emulsion paint with primer on exterior surfaces at terrace and parapets at all levels	0.030%
2	2.1.79	Anti bacterial plastic emulsion paint on ceiling and walls at all floors	0.660%
2	2.1.80	On completion of fire doors, shaft doors i/c hardware	
2	2.1.81	Supply and installation of 120 minutes fire rated door frame and shutters with or without fire rated vision panel glass, SS butt hinges, sealing of joints of frame and walls	0.360%
2	2.1.82	Supplying and fixing SS fire rated hardware for fire and shaft doors like panic bar, trim, door closers, tower bolt, coordinator	0.070%
2	2.1.83	On completion of glass doors, glass paneling and mirrors etc.	
2	2.1.84	Providing and fixing 12mm thick frameless plate glass door shutters, glass panes in windows, ventilators, fixed glazing tempered / non tempered / mirrors in toilets	0.140%
2	2.1.85	Providing and fixing 6mm thick lacquered glass paneling on walls in lobbies	0.120%
2	2.1.86	On fixing of laminated flush door shutters with hinges at all floors	0.480%

2	2.1.87	On completion of interior wall finishing with acoustic panels, rigid vinyl sheet, HPL board etc.	
2	2.1.88	Providing and installation of acoustical wall paneling with frame work at all floors	1.000%
2	2.1.89	Providing and fixing Interior wall area with fabric panels, prelaminated board and all other finishes except acoustic panels, painting, vitrified tile cladding	0.137%
2	2.1.90	On completion of interior flooring & skirting finishing - False floors, laminated HDF flooring, skirting profiles, anti slip strip on treads	
2	2.1.91	Providing and fixing 8mm thick HDF laminated plank flooring i/c skirting profile, False flooring tile system in server room	0.070%
2	2.1.92	On completion of stainless steel 304 grade railing, glass railings with stainless steel supports	
2	2.1.93	Stainless steel 304 grade railings for staircases, balconies, terraces, double height areas, lobbies etc.	0.620%
2	2.1.94	Providing and fixing 1200mm high Laminated toughened glass railing (6 mm clear glass FT + 1.52 mm pvb film + 6 mm clear glass FT) with SS 316 adaptor & SS 316 balusters	0.130%
2	2.1.95	On completion of All type of door, windows, ventilators hardware	
2	2.1.96	All hardware like stainless steel 304 grade handles, tower bolts, mortice locks, cylinders, door stoppers, door buffers, SS kick plates, push plates, mop plates, floor springs, SS sign plates, SS door handles at all floors	0.560%
2	2.1.97	Door closers of all types at all floors	0.152%
2	2.1.98	On completion of All toilet / bath cubicles & urinal partition	
2	2.1.99	Toilet cubicles made from 12mm thick HPL board with all accessories as per GFC drawings & HPL urinal partitions	0.260%
2	2.1.100	Fixed laminated cabinets for kitchen, pantry, toilets	
2	2.1.101	Providing fixed laminated cabinets made from MR grade commercial board and pasted with 1 mm thick laminate on all sides, lock, SS handles complete	0.100%
2	2.1.102	On completion of entire work including treatment of Column guards, Roller Blinds, Curtains signage's, etc.	
2	2.1.103	On completion of treatment of Column guards, signage's, Roller Blinds, Curtains etc.	0.150%
2	2.1.104	On completion of various small items not mentioned above but shown in drawings / required for completion	0.137%

2	2.20	Internal Water supply, Sanitary Installation and Drainage work up to first manhole including preparation of shop drawings	
2	2.2.1	Completion of Internal grid of water supply CPVC concealed and exposed piping 20mm to 40mm dia for ground and first floor level i/c thermal insulation complete	0.089%
2	2.2.2	Completion of Internal grid of water supply CPVC concealed and exposed piping 20mm to 40mm dia for second and third floor level i/c thermal insulation complete	0.089%
2	2.2.3	Completion of Internal grid of water supply CPVC concealed and exposed piping 20mm to 40mm dia for fourth and terrace floor level i/c thermal insulation complete	0.044%
2	2.2.4	Completion of exposed CPVC SCH-40 piping 50mm to 150mm dia up to Terrace Floor level and terrace water tanks	0.080%
2	2.2.5	Completion of sound insulated Polypropylene piping system with 3 layer pipe, colour, push-fit type, with all necessary fittings from 40mm to 160mm dia at ground and first floor levels	0.153%
2	2.2.6	Completion of sound insulated Polypropylene piping system with 3 layer pipe, colour, push-fit type, with all necessary fittings from 40mm to 160mm dia at second and third floor levels	0.160%
2	2.2.7	Completion of sound insulated Polypropylene piping system with 3 layer pipe, colour, push-fit type, with all necessary fittings from 40mm to 160mm dia at fourth, and terrace floor levels	0.077%
2	2.2.8	On fixing of forged brass ball valves , butter fly valves, All other valves.	0.047%
2	2.2.9	On completion of uPVC pipes 110mm / 160mm OD pipe i/c fittings like P-traps etc. complete at all locations	0.220%
2	2.2.10	SITC of MHot Water circulation Pumps in Heat pump and tank. (For 70 KW Heat Pump) 2 nos + 1 stand by	0.028%
2	2.2.11	SITC of stainless steel R.O water storage tank (SS 316) with minimum thickness of shell is 3 mm and base is 3 mm placed at terrace level with inlet, outlet, overflow connection complete - 500 litres cap.	0.016%
2	2.2.12	SITC of skid mounted fully automatic Reverse Osmosis System of output capacity 100 litres / hour designed at a minimum Flux at inlet complete with fittings, valves, meters etc. as required	0.080%
2	2.2.13	On supply and fixing of white vitreous china wash basin with special fabricated brackets painted white, faucets as required, 32 mm C.P. brass waste.32 mm C.P. brass bottle trap & pipe to wall with rubber adopter for waste connection and C.P. brass wall flange	0.060%
2	2.2.14	On supply and fixing urinals with fittings complete	0.120%
2	2.2.15	Supply and fixing of water supply fittings and fixtures - CP mixer, faucet, bib cock, toilet paper holder, grab bar, soap dish etc. all complete	0.170%
2	2.2.16	Supply and fixing of wall hung WC with cover - 100% of total nos.	0.100%

2	2.2.17	Providing and fixing 150 litre/ hr. cooling and storage capacity, fully stainless steel electric storage type water cooler complete in all respect.	0.210%
2	2.2.18	On completion of all items not mentioned above but shown in GFC drawings / required to complete work	0.030%
2	2.2.19	On completion of entire work and testing	0.014%
2	2.3	E & M Works of Academic Building	
2	2.3	Internal Electrical works including MDB's, Light Fixture, fans	
2	2.3.1	Laying of Conduit and junction boxes for light / ceiling fan / exhaust fan points, light & power plugs for all floors in recess / surface complete	0.240%
2	2.3.2	Drawing PVC insulated copper wires 1.5 sqmm in conduits for light / ceiling fan / exhaust fan points, call bell points for all floors complete	0.240%
2	2.3.3	Fixing of modular switches & connections at all floors for light / ceiling fan / exhaust fan points, call bell points, complete	0.330%
2	2.3.4	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for all floors complete	0.580%
2	2.3.5	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing for all floors complete	0.430%
2	2.3.6	Supplying and fixing of PVC conduit 25mm / 32mm along with accessories in surface/recess for circuit wiring etc. and other services like fire alarm wiring	0.360%
2	2.3.7	Wiring for circuit/ submain wiring along with earth wire with various sizes of FRLS PVC insulated copper conductor, single core cable at all floors in MS conduits - 1.5 sqmm to 16 sqmm.	2.310%
2	2.3.8	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 A modular socket outlet and 5/6 A modular switch, connections and 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. at all floors	0.090%
2	2.3.9	Supplying and fixing of MV distribution boards - single pole, three pole with all types of MCB, DP switch, RCCB etc. for all floors complete	0.200%
2	2.3.10	Supplying and fixing of Main MV panels - for light & power, UPS, ventilation, AHU's, lifts, etc. for all floors etc. complete	1.230%
2	2.3.11	Supplying and fixing of Main distribution boards - for light & power, for all floors etc. complete	0.600%
2	2.3.12	On SITC of LED Surface / concealed mounted Down lighters as per GFC at all floors	0.270%
2	2.3.13	On SITC of LED Batten in 36W / 18 W / Integral LED 4ft IP65 batten /recessed mounted 30W-3000lm Round Shape Adjustable spot light COB type, at all floors	0.065%

2	2.3.14	On SITC of recessed mounted 2X2 LED panel light fixtures of all types with wattage at all floors	0.730%
2	2.3.15	On SITC of LED based suspended standalone 4ft. Luminaire, LED strip light, bulk heads etc. at all floors	0.093%
2	2.3.16	On SITC of ceiling fans at all floors	0.154%
2	2.3.17	On SITC of lighting protection and earthing system complete	0.130%
2	2.3.18	ON SITC of all sizes cable trays at all floors	0.290%
2	2.3.19	On SITC of all cables as per schedule at all floors to complete the work	0.110%
2	2.3.20	On completion of all balance miscellaneous activities related to electrical works i/c lighting conductors not mentioned above at required locations.	0.010%
2	2.4.	Fire fighting system	
2	2.4.1	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 25mm dia to 65mm dia for all floors	0.005%
2	2.4.2	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts - 80mm dia to 150mm dia for all locations	0.180%
2	2.4.3	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe 80mm dia at all floors	0.029%
2	2.4.4	Supplying and fixing single headed Stainless steel internal hydrant valve with instantaneous Stainless Steel coupling of 63 mm dia with cast iron wheel at all floors	0.037%
2	2.4.5	SITC of butterfly valve of PN 1.6 rating with bronze / gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets of all sizes 80/100/150 mm dia at all floors	0.047%
2	2.4.6	Supplying and fixing 40m long first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete at all floors	0.075%
2	2.4.7	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) stainless steel grade 304 at all floors	0.056%
2	2.4.8	Providing and fixing MS partly glazed single/double hung lockable shutter fabricated from MS section as required with 5 mm thick glass for fire station complete as per specifications	0.064%
2	2.4.9	SITC of electric driven terrace pump 900 LPM with MCC panel suitable for automatic operation and consisting of air vessel, pressure gauge, bridge connection misc. items to complete fire fighting system complete in all respects,	0.110%
2	2.4.10	Providing and fixing carbon-di-oxide type fire extinguishers capacity 4.5 kg as per specifications, complete at all floors	0.115%
2	2.4.11	Providing and fixing ABC Powder type fire extinguishers capacity 6 kg. as per specifications complete with internal charge.	0.054%

2	2.5.1	On SITC 2 no 120 KVA rating UPS in paralleling mode at 0.99 input power factor with SNMP card, compatible for BMS connectivity on back net/MODBUS, as per particular specification given in the document.	1.240%
2	2.6.1	Fire alarm system	
2	2.6.1	On Supplying and Laying of 2 x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath for all floors	0.200%
2	2.6.2	SITC of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required.	0.052%
2	2.6.3	On SITC of Addressable 2 wire Multi-Criteria Detector (Photoelectric Smoke + Heat detection) with built-in short circuit isolator, above and below ceiling at third floor and above upto terrace floor complete	0.410%
2	2.6.4	On SITC of 4 loop micro processor based intelligent addressable main fire alarm panel, central processing unit complete system as per specifications volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system complete as per specifications.	0.070%
2	2.6.5	SITC of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required.	0.030%
2	2.6.6	SITC of addressable beam detector with short circuit isolator (inbuilt or separate) complete with emitter and receiver including connections with remote test features etc. complete as required.	0.078%
2	2.6.7	Supply, Installation, testing and Commissioning of Exit Signage Light with 3hrs Battery Backup Twin Side available in Green/Red Colour.	0.050%
2	2.6.8	On SITC of balance items like thermal heat detectors, smoke indicators, Addressable 2 wire break glass manual call point, Addressable loop powered Wall mount sounder with strobe, 2 Wire monitor module, 2 Wire Control module, Zone Fire Fighter Telephone System etc. complete	0.330%
2	2.7.	Lifts	
2	2.7.1	On supply of 100% machine room less lifts for passengers as per lift schedule	1.562%
2	2.7.4	On installation of 100% lifts	0.210%
2	2.7.5	On testing, commissioning of all lifts	0.210%
2	2.7.6	On getting certificate & license of Local lift authority	0.100%
2	2.8.	Internal CCTV system & Access Control System	
2	2.8.1	SITC of loaded 24-Port 1U loaded Universal Modular Straight Patch Panel, pre loaded with cable support Bar, Complete as per spec	0.067%
2	2.8.2	On SITC of Dome Camera , / Bullet Camera Resolution upto 5 MP , Quad stream with each stream support H.265 complete as per specifications	0.117%

2	2.8.3	ON SITC of Workstation PC: Intel(R) Core(TM) i7-3770 Processor (8M Cache, up to 3.90 GHz); RAM: 8GB (1x8GB) Non-ECC DDR3 1600MHz; Keyboard: 12 function keys; Chassis: Tower/Workstation; DVD: 8X Slimline DVD+/-RW, Data Only; Dual Graphics Card; Network interface card: Integrated Intel(R) 82579LM Gigabit1 Ethernet LAN 10/100/1000; Hard disk: 250GB, 7200 RPM 3.5" SATA 6Gb/s Hard Drive; Operating system: Windows 7 Professional 64 Bit or latest., Full HD 55" TV	0.050%
2	2.8.4	On SITC of 64 channel NVR, ONVIF compliant, recording bandwidth 640 Mbps, output interface 1 HDMI (up to 4K), 1 VGA, Alarm in/out :16ch in/ 4ch out , 1 X RJ45 ethernet , iOS smartphone support, 8 HDD support , each HDD slot support upto 8 TB HDD, RAID support , complete as per specifications	0.09%
2	2.8.5	SITC of IP based Access Controllers with Built in Face recognition cum card reader, Double & single Leaf with 600 LBS holding force, as per approved datasheet.	0.110%
2	2.8.6	Providing and fixing Mild steel conduiting, Cat 6 cabling, PVC copper cabling etc. as per specifications	0.120%
2	2.8.7	Supply, Installation, Testing & commissioning of Desktop as per approved datasheet including Modular Access Management software	0.078%
2	2.8.8	SITC of Core Switch with 1*USB 2.0 port, 24*1/10G SFP+ fiber ports (Data), 1*RS232 Console port(9600,8,N,1), 4*40G/100G QSFP28 fiber ports (Data)1*10/100/1000M RJ45 management port(Data), Forwarding Rate @ 64byte 952Mpps. Operation TEMP/ Humidity -20 to +55°C.	0.480%
2	2.8.9	SITC of Rack Mounted Industrial 24 port L2+ Managed switch having 24*10/100/1000Base-T POE ports, 4*100/1000Base-X uplink SFP ports, 1*RS232 Console port. Forwarding Rate @ 64 byte 38.69Mpps .Operation TEMP/ Humidity -40~+85°C.	0.130%
2	2.8.10	ON SITC of CAT 6 patch panel, jacks , nut bolts and balance miscellaneous items as per schedule required to complete the systems	0.057%
2	2.9.	WIFI, TV, TELEPHONE SYSTEM	
2	2.9.1	Supply and laying of 4 Pair UTP Cable 23 AWG copper with integral cross-member pair separator (bidirectional tape, strips and others will not be accepted) (Cat-6) standards in PVC conduits as per GFC drawings	0.025%
2	2.9.2	SITC of the Microservices based WLAN Architecture. The indoor AP should have radios to support 2.4Ghz and 5 Ghz band in a 4X4:4 Mu-MIMO configuration with support for 802.11 a/b/g/n/ac. The AP should have internal Omni Antennas and should support vBLE and RF optimization. It should also support way finding and asset tracking via Bluetooth. Should support Artificial Intelligence platform, WIPS/WIDS to detect Rogue APs and the facility to terminate connection to the Rogue APs.Plenum rated and support for UL 60950-1 CAN/CSAC22.2 No. 60950-1, FCC Part 15.247, 15.407, 15.107, and 15.109 RSS247 ICES003.	0.080%

2	2.9.3	SITC of Appliance Server based customised ITAM for asset inventory management with ability to map physical locations and exact rack elevations for audit and support control. Appliance shall be Intel x86 based device with secure intranet server with Linux Based operating system and relational databases for long term storage. Appliance includes license for 500 units under control.	0.044%
2	2.9.4	On SITC of RJ 45 & balance items as required to complete the system	0.004%
2	2.10.	AUDIO VISUAL SYSTEM	
2	2.10.1	SITC of AV System including lighting automation, speaker, amplifier etc. For Meeting Rooms.	0.670%
2	2.10.2	SITC of AV System including lighting automation, speaker, amplifier etc. For Board room	0.270%
2	2.11.	HVAC - low side works	
2	2.11.1	On Supplying and fixing of mild steel chilled water piping with 75mm insulation at all floors - 150mm mm dia	0.040%
2	2.11.2	On Supplying and fixing of mild steel chilled water piping with 50mm insulation at all floors - 20mm to 125 mm dia	0.170%
2	2.11.3	On Supplying and fixing of condensate drain piping and insulation	0.014%
2	2.11.4	On Supplying and fixing of all types of valves and strainers at all levels	0.180%
2	2.11.5	Providing and fixing of thermostat for dual mode both heating and cooling along with sensor and control cabling. (BMS compatible) Semi Flush-mount room temperature controllers with LCD display, 24V AC Model RDU340 and thermometers as per schedule	0.028%
2	2.11.6	SITC of factory fabricated GSS sheet metal rectangular ducting with supports as per IS 655-2006 complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per GFC drawings and specifications of all thickness at all floors	0.315%
2	2.11.7	On Supplying and fixing of site fabricated GSS sheet metal rectangular ducting with supports as per IS 655-2006 complete with neoprene rubber gaskets of all thickness at all floors	0.030%
2	2.11.8	On SITC of floor mounted air handling units of various airflows as per schedule & GFC drawings	1.130%
2	2.11.9	On SITC of 2 TR (2 working + 1 stand by) 3 no inverter air cooled Hi wall Split air-conditioning unit of BEE 5 star rating consist of outdoor unit, indoor unit wireless remote control complete as per specifications	0.540%
2	2.11.10	On SITC of internal AC ducting of PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas, Panel / Board should be CFC/HCFC Free Green Pro & GRIHA Certified , Thickness is 20mm , Density of PIR foam 45 kg/m ³ , Thermal Conductivity 0.023W/m.K. at 10 degC mean temp, can withstand -35 Deg C to 110 Deg C, complete as per specification for all floors complete	1.140%
2	2.11.11	SITC of external PIR' (Polyisocyanurate Rigid) Preinsulated Ducts for AC Areas as per specifications	0.100%
2	2.11.12	SITC of electrostatic filter single module - 1000 cfm as per specifications, complete as per schedule	0.081%

2	2.11.13	SITC of electrostatic filter single module - 2000 cfm as per specifications, complete as per schedule	0.470%
2	2.11.14	On SITC of Pressure independent variable air volume Terminal units 100 to 3000 cfm , suitable for installation in horizontal ducts as per schedule complete at all floors.	0.410%
2	2.11.15	On SITC of Heat recovery units of all sizes factory fabricated Double skinned construction with Thermal Break Profile with (0.8mm) pre coated GSS from outside & (0.8mm) GSS on inside with PUF Insulation at all floors as per schedule	1.240%
2	2.11.16	On SITC of AHU coil mounted UVGI system of all sizes at all floors	0.260%
2	2.11.17	Providing, laying, jointing, testing and commissioning of Grooved Couplings & Grooved Fittings in pipes for Chilled Water and Condenser Water Lines including all accessories at all floors.	0.190%
2	2.11.18	SITC of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring - fire damper / actuator as per GFC drawings.	0.130%
2	2.11.19	On SITC of powder coated extruded aluminium Supply Air Grills/ exhaust with aluminium volume control dampers / supply / return grills with louvers, return air diffusers as at all floors per specifications.	0.115%
2	2.11.20	Providing and fixing of acoustic lining on wall and ceiling of AHU rooms with 25mm thick Rigid Board of Glass wool one side aluminum faced and other side black glass cloth lamination, density 70 to 80 kg/Cu.m at II floors	0.210%
2	2.11.21	On SITC of HVAC dedicated VFDs suitable for the 4 KW AHU fan motor capacity with IP 21 complete as per specifications at all floors	0.670%
2	2.11.22	On completion of balance items as required to complete the system as pr GFC drawings and schedules at all floors	0.040%
2	2.11.23	On SITC of backward curved SISW Centrifugal Cabinet Fan of various cfm's at various locations with flexible connection & gravity louvers at outlet, class-F insulation of IE3 efficiency grade complete as per specifications	0.470%
2	2.12.	On supply & fixing of internal signage for fire, lifts, rooms, corridors, lobbies staircases etc. as per GFC drawings	0.045%
2		Total	100.000%
3		Resident Hostel cum Guest House Building	
3	3	Completion of Residents Hostel Cum Guest House- G+7 floors - (1 Block) as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 3.0 of Financial Quote Part H) & as per NIT	
3	3.1.1	Excavation, Boring piles, providing reinforcement, cast-in-situ reinforced cement concrete - 100% of total no.	9.000%
3	3.1.2	Testing of piles - Initial and routine and Integrity	0.170%

3	3.1.3	Laying lean concrete below pile caps, raft - 100% area of total area	0.310%
3	3.1.4	Casting RCC pile caps, raft, tie beams i/c reinforcement, form work -100% Area total	7.000%
3	3.1.5	Casting RCC columns, shear walls, lift retaining wall upto bottom of grade slab i/c reinforcement, form work	4.500%
3	3.1.6	Filling earth over RCC caps, raft, ground i/c compaction to 95% proctor's density - 100% of total area	0.380%
3	3.1.7	Casting RCC grade slab with beams, tie beams i/c reinforcement, form work for 100% area of total	2.210%
3	3.1.8	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to Ground Floor roof slab Level - 100% area	2.850%
3	3.1.9	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to First Floor roof slab Level - 100% area	2.850%
3	3.1.10	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to second Floor roof slab Level - 100% area	2.850%
3	3.1.11	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to third Floor roof slab Level - 100% area	2.850%
3	3.1.12	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to fourth Floor roof slab Level - 100% area	2.850%
3	3.1.13	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to fifth Floor roof slab Level - 100% area	2.850%
3	3.1.14	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to sixth Floor roof slab Level - 100% area	2.850%
3	3.1.15	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to seventh Floor roof slab Level - 100% area	2.850%
3	3.1.16	Casting RCC columns, shear walls, lift walls, staircase, beam and slab up to eighth Floor roof slab Level - 100% area	2.850%
3	3.1.17	Casting of RCC staircase, column, beam and slab, water tank and all other RCC work at terrace floor - 100% area	1.500%
3	3.1.18	On completion of all masonry work i/c RCC bands, lintols	5.800%
3	3.1.19	On completion of all plastering works on ceiling & walls	1.420%
3	3.1.20	On completion of all waterproofing works at all levels	2.200%
3	3.1.21	On completion of all door frames at all levels	1.300%
3	3.1.22	On completion of all types of floorings, skirting at all levels	4.600%
3	3.1.23	On completion of all types of door shutters at all levels	1.450%
3	3.1.24	On completion of all false ceilings	1.270%
3	3.1.25	On completion of all types of stone / tile dado work	1.270%

3	3.1.26	On fixing of all external windows, glazing	0.400%
3	3.1.27	On fixing of fire doors and hardware	0.870%
3	3.1.28	On fixing of stainless steel railings	3.070%
3	3.1.29	On fixing of all glass panes, mirrors	0.360%
3	3.1.30	On fixing of screens, louvers in façade	0.700%
3	3.1.31	on completion of external & at terrace level surfaces i/c painting etc.	1.690%
3	3.1.32	On completion of fixed cabinetry work	0.070%
3	3.1.33	On completion of balance items not specified	0.100%
3	3.1.34	On completion of sanitary & plumbing works as per GFC drawings & schedules.	7.500%
3	3.1.35	On completion of internal electrical works as per GFC drawings & schedules.	7.200%
3	3.1.36	On completion of Fire alarm system as per GFC drawings & schedules.	0.290%
3	3.1.37	On completion of Lifts as per GFC drawings & schedules.	2.450%
3	3.1.38	On completion of Internal CCTV work as per GFC drawings & schedules.	0.720%
3	3.1.39	On completion of structured cabling as per GFC drawings & schedules.	0.550%
3	3.1.40	On completion of Fire fighting works as per GFC drawings & schedules.	0.900%
3	3.1.41	On completion of Air-conditioning VRF / VRV system including low side works as per GFC drawings & schedules.	2.650%
3	3.1.42	On completion of Ventilation system including low side works as per GFC drawings & schedules.	0.450%
3	3	Total	100.000%
4		Construction of Ancillary & Service Block	
4	4	Completion of Construction of Ancillary & Service Block for but not limited to Electrical Sub-Station, HVAC Plant, Water tanks, Fire tanks, Sewage tanks, Sumps, STP rooms, ETP rooms, Fire Water Supply Pump rooms & MGPS Plant room - (1 Block) as per detailed scope of work, technical specification and GFC drawing. (Civil & all internal associated services as per scope of work & GFC drawings)- (100.00% of the Quoted Amount for Item No. 4.0 of Financial Quote Part H) & as per NIT	
4	4.1.1	On completion of RCC structural works as per GFC drawings & schedules.	
4	4.1.2	On completion of excavation, Antitermite, PCC laying	3.000%
4	4.1.3	On completion of RCC raft including reinforcement, form work and waterproofing admixtures	26.000%
4	4.1.3	On completion of RCC retainers, retaining walls, grade slab, plinth beams including reinforcement, form work and waterproofing admixtures of tanks	15.000%
4	4.1.4	On completion of RCC structural works for columns, roof slabs i/c beams, staircases, reinforcement, form work for 1st floor level as per GFC drawings & schedules.	13.440%
4	4.1.5	On completion of RCC structural works for columns, roof slabs i/c beams, staircases, reinforcement, form work for 2nd floor level as per GFC drawings & schedules.	10.000%

4	4.1.5	On completion of RCC structural works for columns, roof slabs i/c beams, staircases, reinforcement, form work for roof level as per GFC drawings & schedules.	8.000%
4	4.1.6	On completion of civil finishing works as per GFC drawings & schedules.	18.000%
4	4.1.7	On completion of sanitary & plumbing works as per GFC drawings & schedules.	0.450%
4	4.1.8	On completion of internal electrical works as per GFC drawings & schedules.	2.670%
4	4.1.9	On completion of Fire alarm system as per GFC drawings & schedules.	0.650%
4	4.1.10	On completion of Signage as per GFC drawings & schedules.	0.030%
4	4.1.11	On completion of Internal CCTV work as per GFC drawings & schedules.	0.220%
4	4.1.12	On completion of Fire fighting works as per GFC drawings & schedules.	0.040%
4	4.1.13	On completion of MGPS room structural civil works as per GFC drawings & schedules.	1.900%
4	4.1.14	On completion of MGPS room finishing civil works as per GFC drawings & schedules.	0.600%
4	4	Total	100.000%
5	5	Connecting Bridge	
5	5	Completion of Connecting Bridge 2.5 m wide between Hospital and Academic Block – 1 bridge as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 5.0 of Financial Quote Part H) & as per NIT	
5	5.1	On completion of RCC piling, excavation, PCC, RCC, form work, reinforcement work upto plinth as per GFC drawings	28.000%
5	5.2	On completion of fabrication, erection of steel columns, metal deck roofing & laying RCC on deck slab	55.000%
5	5.3	On completion of railing, flooring, skirting & services works as per GFC drawings	17.000%
5		Total	100.000%
6	6	Boundary walls, Toilets & Guard rooms	
6	6	Completion of Boundary walls, Toilets & Guard rooms (Guard Rooms, toilets and boundary walls (Type 1, Type 2 & Type 3) shall be as per detailed scope of works, technical specifications and GFC drawings). (100.00% of the Quoted Amount for Item No. 6.0 of Financial Quote Part H) & as per NIT	
6	6.1	Boundary walls all types	
6	6.1.1	On completion of boundary walls all types RCC structural works which consist of footings, retaining wall, columns as per GFC drawings - 50% length	25.000%
6	6.1.2	On completion of boundary walls all types RCC structural works which consist of footings, retaining wall, columns as per GFC drawings - Balance 50% length	25.000%
6	6.1.3	On completion of boundary wall civil finishing works all per GFC drawings	9.600%
6	6.2	Guard rooms & toilets	
6	6.2.1	On Completion of civil structural works for all guard rooms & toilets	15.000%

6	6.2.2	On Completion of civil finishing works for all guard rooms, toilets & gates & portals above gates as per GFC drawings	24.400%
6	6.2.3	On completion of electrical, fire fighting, low voltage system for guard rooms	1.000%
6		Total	100.000%
7	7	HVAC High side works	
7	7	Completion of SITC of Mechanical and Electrical works of Central HVAC plant consisting of - Water cooled centrifugal chillers, chilled & condenser water pumps, cooling towers, close expansion tanks, separators, hot water generators along with all equipment/accessories/ electrical panels, starter, controllers, pipe works, power & control cable works, etc. complete in all respect and including all other associated works/equipment as per detailed scope of work, technical specification and GFC drawings. The scope under this item shall also include SITC of chilled water and hot water piping from plant room to Hospital & chilled water piping from the plant room to the Academic building & inverter Hi wall AC unit in control room. (100.00% of the Quoted Amount for Item No. 7.0 of Financial Quote Part H) & as per NIT	
7	7.1.1	Supplying, Installing, testing & Commissioning of AHRI Certified centrifugal 2 no water chilling machine each having a capacity of 1436400 K.CAL/hour(475 TR)at chilled water inlet/ outlet temperature of 56 Deg. F (13.33 DegC) / 44 Deg. F (6.67 DegC) with chilled water circulation rate of 950 USGPM (nominal) and condenser water inlet/ outlet temperature of 90.1 Deg. F (32.27 Deg. C)/ 100.1 Dec. (37.83 Deg. C) with circulation rate 1425 USGPM (nominal), suitable for operation on refrigerant R-134A/R-1233ZD, each comprising complete items as per specification and as reqd. The scope of work shall include Lifting, shifting & positioning of chiller at location shown on drawing. Chiller shall be capable to unload from 100% to 20% even at constant ECWT of 92 degree Fahrenheit, without surging and without hot gas bypass. Maximum noise sound pressure level at 1m as per AHRI 575, Shall be not more than 85 dBA. c	26.760%
7	7.1.2	Supplying, Installing, testing & Commissioning of AHRI Certified centrifugal 2 no water chilling machine each having a capacity of 1436400 K.CAL/hour(475 TR)at chilled water inlet/ outlet temperature of 56 Deg. F (13.33 DegC) / 44 Deg. F (6.67 DegC) with chilled water circulation rate of 950 USGPM (nominal) and condenser water inlet/ outlet temperature of 90.1 Deg. F (32.27 Deg. C)/ 100.1 Deg.F (37.83 Deg. C) with circulation rate 1425 USGPM (nominal), suitable for operation on refrigerant R-134A/R-1233ZD, each comprising complete items as per specification and as reqd. The scope of work shall include Lifting, shifting & positioning of chiller at location shown on drawing. Chiller shall be capable to unload from 100% to 20% even at constant ECWT of 92 degree Fahrenheit, without surging and without hot gas bypass. Maximum noise sound pressure level at 1m as per AHRI 575, Shall be not more than 85 dBA. c	26.760%

7	7.1.3	SITC of 5 no CTI Certified induced draft crossflow cooling tower with side panels in FRP/ Steel construction, FRP / Steel Hot Water & Cold Water basins, Curtain Type PVC fills (13mill thk) & capable to withstand hot water temp. upto 54°C with integral louvers, drift eliminators, completely formed from self-extinguishing polyvinyl chloride (PVC) material (as per ASTM D-568) , having a flame spread rating of 5 per ASTM Standard E84-77a and oxygen index of 32. Hot water basin either fitted with non-clog type spray nozzles or having self rotating sprinklers, statically balanced axial flow fan, Fan & drive components (fan & motor sheaves) to be made in Aluminium Construction, split bearing shall be provided in fan shaft to divide the load over two bearings, belt driven fans with TEFC/ TEAO induction motor of class F insulation, efficiency class IE-3 suitable for operation on 415 + 10% volts,50 Hz. AC supply. Suction screen in SS Construction, make-up quick fill arrangement, vibration cut out switch, extended lubrication lines, overflow and drain connections with all necessary valves & foot valves, suitable inspection ladder, access door to enter the cooling tower with service platform/ walkway inside the cooling tower for easy access and maintenance shall be provided, steel supporting structure with proper design, anti-vibration mountings, foundation nuts, bolts, painting etc. complete as required and as per specification. For longer life of the product CT structure shall be made out of Hot dip galvanization Sheets which shall be minimum G-235 Grade on the steel frame, ladder & other accessories.	14.100%
7	7.1.4	ON SITC air circulation system as per GFC	0.280%
7	7.1.5	On SITC of water piping system including chilled water pumps	28.500%
7	7.1.6	on SITC of mechanical ventilation system	1.350%
7	7.1.7	on SITC of aluminium grills, diffusers	1.750%
7	7.1.8	On testing & commissioning complete system	0.500%
7	7.1.9	Total	100.000%
8	8	External Development	
8	8	Completion of External Development of land which include filling, levelling of ground as per level sheet and Drawings, Internal roads & Footpaths, Fire tender path, Parking, plazas, Water body, fountain, Signage as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 8.0 of Financial Quote Part H) & as per NIT	
8	8.01	Supplying and filling of local earth / sand from outside (including royalty) by mechanical transport including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundations and over pile caps areas etc. complete.	16.490%
8	8.02	Preparation of subgrade for roads, parking, fire tender path etc. by excavating earth to an average of 250 mm depth, dressing to camber and consolidating with 10 T capacity road roller compacting upto optimum moisture content including making good the undulation to receive the hard base and disposal of surplus earth as directed by Engineer-in-charge.	4.190%
8	8.03	Construction of granular sub-base for fire tender path & parking area etc. by providing close graded with material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30, 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 150mm 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 Engineer- in-Charge.	3.380%

8	8.04	Construction of 100mm thick granular sub-base for fire tender path , parking area by providing close graded With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25, 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 Engineer- in-Charge.	2.290%
8	8.05	Providing and applying tack coat on road area using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :	0.670%
8	8.06	Providing and laying 50 mm compacted thickness Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge -with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	2.070%
8	8.07	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	1.180%
8	8.08	Providing and applying 2.5 mm thick road marking strips (retro reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface with applicable specification	0.920%
8	8.09	Providing and fixing in position M-30 grade Precast concrete Saucer Drain channel of size 300 mm wide fixed on 20 mm thick 1:4 (1 cement: 4 coarse sand) cement mortar.	1.090%
8	8.1	Excavation in trenches for toe walls, PCC 1:4:8, and brick works in toe walls in cement mortar 1:6 as per drawings	3.330%
8	8.11	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in charge i/c panel shuttering work .	3.770%
8	8.12	Providing and laying at or near ground level factory made kerb stone/Mountable Kerb of M-25 grade cement 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) curve shall not to more than 5mm)including making drainage opening wherever required complete etc. as per direction of Engineer -in-in charge.	6.000%

8	8.13	Providing and laying 150mm thick Dense Graded Bituminous Macadam for roads using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge. 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity	22.130%
8	8.14	Providing and laying 80mm thick factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc., of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver block into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver block as per required size and pattern, finishing and sweeping extra sand. Complete all as per direction of Engineer-in-Charge.	6.850%
8	8.15	Providing and laying 60mm thick factory made chamfered edge Cement Concrete paver blocks in pathways etc., of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver block into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver block as per required size and pattern, finishing and sweeping extra sand.	1.410%
8	8.16	Supplying and laying of 30mm thick Polished steel grey & Sira grey granite with cement mortar 1:4 mixed with Cebex 112 in paving's, paving bands complete as sample approved	16.740%
8	8.17	Supplying and laying of 30mm thick Polished steel grey & Sira grey granite with cement mortar 1:4 mixed with Cebex 112 in plaza, toe walls, copings complete as sample approved	2.910%
8	8.18	Supplying and laying Grass Track Grass Pavers, Green honeycomb panels with self anchoring pegs, made of high impact resistant HDPE. Each grass paver should be of 330mm x 330mm X 35 mm in height consisting of four floral shaped structure of 125mm open cell and nine round cell opening of 45mm dia. Each of the open cell are connected With a web like structure for strength and stability. Base of the panel is equipped with a slot opening for drainage and four round struts for anchoring purpose. The Grass Paver to have interlock system to lock each other. The Grass Paver should have compressive strength of minimum 150 tons/sq. MT, capable to take the load of the fire tender. The panel should have high level of porosity greater than 90%,porous for Grass, shrubs and low planters. Laying to be done on 50 mm sand bed over well compacted subbase as per manufacturer specifications and directions of Engineer in charge.	1.370%
8	8.19	Construction of water body in RCC with PCC lean, M35 grade RCC, reinforcement, waterproofing, form work, granite stone cladding, piping, valves & fountains system complete	3.210%
8	8.2	Total	100.000%

9	9	STP & ETP works	
9	9	Completion of SITC of Mechanical and electrical equipment of Sewage Treatment Plant of 415 KLD & 60 KLD Effluent Treatment Plant, Water Supply System including all equipment & pumps, electrical panels, power & control cable works and all associated accessories & works as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 9.0 of Financial Quote Part H) & as per NIT	
9	9.1	On SITC of ETP 60 KLD complete system	10.00%
9	9.1	On SITC of Sewerage treatment plant 415 KLD capacity i/c pipes, pumps & accessories	60.00%
9	9.1	On completion of electrical works for STP, ETP i/c panels, cables, pipes	5.00%
9	9.1	On installation of pumps, accessories and piping network	15.00%
9	9.1	On Completion, Testing & commissioning	5.00%
9	9.1	On completion of RMO for one year	5.00%
9	9.1	Total	100.00%
10	10	Electrical Substation works e/x building	
10	10	Completion of SITC of 33/0.433KV substation comprising of Main 33KV panel, 2500 KVA x 3 nos. transformers, RTCC panel, HT cables from the APDCL HT metering point to the main 33KV panel & from the main 33KV panel to the transformers, control cables from the transformers to the main 33KV panel, bus trunking from the transformers and DG Synchronizing cum AMF Panel to the Main LT panel, Main LT panel, Hybrid panels, APFC panels, active harmonic filters, TVSS, SPD (Surge protection system), Earthing, substation safety equipment, required inter-connections, including LT cabling from substation to all the buildings/ pump rooms, feeder pillars fed by the substation including all other works/ equipment as per detailed scope of works, technical specifications and GFC drawings. (100.00% of the Quoted Amount for Item No. 10.0 of Financial Quote Part H) & as per NIT	
10	10.1	On supply at site of 2500 KVA, oil filled 33/0.433KV, 3 phase, 50 Hz, delta/star transformer 3 no	12.000%
10	10.2	On installation, testing & commissioning of 3 no transformers	4.000%
10	10.3	On supply of main 33 KV HT panel at site	5.500%
10	10.4	On installation, testing & commissioning of main HT panel	1.000%
10	10.5	ON supply of hybrid panels, 3 nos. 400 A AHF & 400 KVAR capacitor bank and panel consisting of 100 KVAR,50 KVAR, 25KVAR, capacitor unit in tier formation; housed in an integrated cubicle type, indoor type automatic switching 'ON' and 'OFF' control panel separate from Main LT Panel complete	32.000%
10	10.6	On installation, testing & commissioning of hybrid panels 3 no to be integrated with Main LT Panel	2.000%
10	10.7	ON supply of 1 no. 800 A Active harmonic filter (AHF) to be integrated with Hospital Block panel in. 1 and 1 no. 600 A AHF to be integrated with Hospital Block panel -2 complete.	21.333%
10	10.8	On installation, testing & commissioning of AHF panels 2 no to be integrated with HOSPITAL BLOCK PANEL-1&-2	1.334%
10	10.9	On installation, testing & commissioning of balance items as shown in drawings	20.833%
10	10	Total	100.000%
11	11	DG Sets system	

11	11	Completion of SITC of 4 nos. 1500 KVA DG Sets with acoustic enclosure & canopy, Synchronizing AMF cum Panel, Bus Ducts from the DG Sets to the Synchronizing cum AMF panel, Control cables from the DG sets and HT/ LT panels to the synchronizing cum AMF panel as required, ventilation / smoke exhaust as required, Earthing of DG set, Exhaust piping / Exhaust Chimney as per CPCB norms, Civil works connected with DG sets including foundation as required including all other associated works/ equipment as per detailed scope of works, technical specifications and GFC drawings.(100.00% of the Quoted Amount for Item No. 11.0 of Financial Quote Part H) & as per NIT	
11	11.1	ON supply of 2 nos 3 phase 415 volts 50 cycle per second, following 1500 RPM prime duty, radiator cooled 1500 KVA DG Set Diesel Generator Sets with canopy	40.00%
11	11.2	ON supply of 2 nos 3 phase 415 volts 50 cycle per second, following 1500 RPM prime duty, radiator cooled 1500 KVA DG Set Diesel Generator Sets with canopy	40.00%
11	11.3	ON supply, installation, testing and commissioning of 3 phase 415 volts 50 cycle per second, following 1500 RPM prime duty, radiator cooled Diesel Generator Sets - 4no	10.00%
11	11.4	Supplying and fixing mild steel ERW exhaust piping with insulation, mild steel structural supports, mild steel fuel piping complete	9.00%
11	11.5	Supplying, laying, installation, testing and commissioning of PVC insulated copper control cables i/c terminations complete	1.00%
11	11	Total	100.00%
12	12	External CCTV, Lighting, Boom Barriers	
12	12	Completion of SITC of IP Based CCTV system for external building security comprising of PTZ / fixed camera, cabling, digital recording, HD display system and hardware support. Supply & Laying of data & communication cables from main server room (Hospital Block) to other buildings as per detailed scope of works, technical specifications and GFC drawings. (100.00% of the Quoted Amount for Item No. 12.0 of Financial Quote Part H) & as per NITSITC of External lightings for Compound, Pathway, Roads, Landscape & high mast for the entire Campus. SITC of Boom barriers including cable works and all other associated works as per detailed scope of work, technical specification and GFC drawings.	
12	12.1	SITC of IP Based CCTV system	
12	12.1.1	On Supply of all materials for conduiting, wires and accessories etc.	15.000%
12	12.1.2	On Supply of cameras and accessories etc.	25.000%
12	12.1.3	On Supply of all materials for DVR, monitor, software etc.	9.000%
12	12.1.4	On installation of conduiting	10.000%
12	12.1.5	On wiring, fixing equipment's	5.000%
12	12.1.6	On Completion, testing & Commissioning	5.000%
12	12.1.7	Supply & Laying of data & communication cables from main server room (Hospital Block) to other buildings	1.000%

12	12.2	SITC of External lightings for Compound, Pathway, Roads, Landscape & high mast for the entire Campus	
12	12.2.1	On supply and fixing of Feeder pillars weather proof with MCCB, photo chromatic time switch	0.900%
12	12.2.2	SITC of 6 meter High hot dip galvanised continuously tapered (bolt fixing type) octagonal Pole with top 70 mm dia and bottom 130 mm dia	2.800%
12	12.2.3	SITC of IP66 LED street light fitting having system lumen output not less than 7000, efficacy better than 95 lumens per watt and life expectancy of 50000 hours@ L70, Power Factor > 0.90 & THD <20%, CRI better than 70,neutral white light	4.800%
12	12.2.4	SITC of Tree Uplighter 9W IP65	1.000%
12	12.2.5	SITC of factory wired, post top lantern Feroda hat type integrated opal acrylic for and with single 2X18 & 50 watt LED	4.900%
12	12.2.6	SITC of factory wired, bollard light with clear with single 12 watt LED complete with all respect.	8.400%
12	12.2.7	SITC of IP68 under water light Fully encapsulated with Opal semi translucent sealed encapsulation. CCT ranging from 2200K to 5000K, CRI>80Ra OR RGB, RGBW, tuneable white on request End caps remote driver	1.000%
12	12.2.8	SITC of KL-4270 Nebula Bracket 18W Led Dimension:172X100X110 Luminaire	0.700%
12	12.2.9	Providing DWC HDPE pipe with accessories 160mm / 200mm dia	1.000%
12	12.2.10	On Completion, Testing & Commissioning	1.600%
12	12.3	SITC of Boom barriers including cable works and all other associated works as per detailed scope of work, technical specification and GFC drawings.	
12	12.3.1	On completion of conduiting & boxes	0.300%
12	12.3.2	On completion of cat 6 wiring	0.500%
12	12.3.3	On supply of boom barriers with accessories	2.000%
12	12.3.4	On installation, testing & commissioning of boom barriers	0.100%
12	12	Total	100.000%
13	13	Completion of SITC of Integrated Building Management System for Digital/electronic display and monitoring of all E&M systems like substation, DG sets, Ups, Solar power, Lifts, AC Plants, Ventilation systems, Fire protection systems, Pumps etc. to include cabling, monitors, recording, display system, hardware, software support as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 13.0 of Financial Quote Part H) & as per NIT	
13	13.1	On delivery of all equipment's	65.000%
13	13.2	on installation of equipment's & cables	30.000%
13	13.3	On Completion, Testing & Commissioning	5.000%
13	13.4	Total	100.000%
14	14	Completion of SITC of Grid interactive roof top solar photo voltaic power generation system of capacity 50KWp including space frame, inverter, connecting cables & all accessories in the Hospital Building. (100.00% of the Quoted Amount for Item No. 14.0 of Financial Quote Part H) & as per NIT	
14	14.1	On delivery of all Solar panels and meters, equipment's	60.00%

14	14.2	On delivery of GI sections for frame work and accessories	7.50%
14	14.3	On erection GI section frame work at terrace at required level i/c bracing of frame work	7.50%
14	14.4	on installation of equipment's & cables	15.00%
14	14.5	on completion of earthing's with GI strips connected	5.00%
14	14.6	On Completion, testing, commissioning	5.00%
14	14.7	Total	100.00%
15	15	Completion of Loose Furniture – Non-Medical for Hospital Block, R&D cum Academic Block, Nursing Hostels, Guest House & Resident Hostels as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 15.0 of Financial Quote Part H) & as per NIT	
15	15.1	On Supply and placing in position Hospital Block Furniture	
15	15.2	On supply and placing of Waiting Area Chairs 3 seater with or without cushion	10.70%
15	15.3	Standard Medium Back chairs, low back chairs and premium high back chairs, sofas, recliners	21.60%
15	15.4	Office desk tables, side units & mobile drawer units, Coffee tables , side tables, Meeting Tables, Conference tables, tall unit, working counter	15.50%
15	15.5	Modular work stations with drawer units of various configuration	9.20%
15	15.6	All sizes & types of Nursing stations	12.00%
15	15.7	All types of furniture for Academic Block as per schedule	25.00%
15	15.8	All types of furniture for Resident Hostel & Guest house as per schedule	6.00%
15	15	Total	100.00%
16	16	External Services – Sewerage, Effluent, Water Supply/ STP treated water supply pipe works	
16	16	Completion of SITC of External Services – Sewerage, Effluent, Water Supply/ STP treated water supply pipe works to & from buildings and to the STP/ ETP/ WS plant, Rain water harvesting & associated piping works, Storm water drainage as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 16.0 of Financial Quote Part H) & as per NIT	
16	16.1	On SITC of external water supply system complete as per GFC drawings & specifications	10.300%
16	16.2	On SITC of External Sewerage System complete as per GFC drawings & specifications	24.300%
16	16.3	On SITC of Storm Water Drainage complete as per GFC drawings & specifications - 50 % length of total length	22.620%
16	16.4	On SITC of Storm Water Drainage complete as per GFC drawings & specifications - 100 % length of total length	22.700%
16	16.5	On SITC of Water Supply, Drainage Pumps & Water Treatment Equipment's as per GFC drawings & specifications	12.780%
16	16.6	On SITC of Irrigation piping system as per GFC drawings & specifications	7.300%
16	16	Total	100.000%

17	17	Completion of Development of 2 nos. Bore wells of 400mm dia bore with necessary water lifting system complete as per detailed scope of work & technical specifications. (100.00% of the Quoted Amount for Item No. 17.0 of Financial Quote Part H) & as per NIT	
17	17.1	Development of 1 borewell including Boring / drilling bore well of 400 dia for casing/ strainer pipe upto 150m , by suitable method prescribed in IS: 2800 (part I), Supplying, assembling, lowering and fixing in vertical position in bore well, 200mm dia ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes, fittings, gravel filling, fixing 'B' class heavy duty 80mm dia G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets, valves etc. and fixing the pipe, Supply, Lowering, installation & testing of KSB make submersible pumping set with 7.5 HP to 10 HP motor 4 stage pump suitable for 15-20 m3 hr. at 60 to 100 mtr. Head with Three Phase, & electrical panel board and 6mm sq.m aluminium cables, testing & commissioning of complete as per specifications.	50.00%
17	17.2	Development of 1 borewell including Boring / drilling bore well of 400 dia for casing/ strainer pipe upto 150m , by suitable method prescribed in IS: 2800 (part I), Supplying, assembling, lowering and fixing in vertical position in bore well, 200mm dia ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes, fittings, gravel filling, fixing 'B' class heavy duty 80mm dia G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets, valves etc. and fixing the pipe, Supply, Lowering, installation & testing of KSB make submersible pumping set with 7.5 HP to 10 HP motor 4 stage pump suitable for 15-20 m3 hr. at 60 to 100 mtr. Head with Three Phase, & electrical panel board and 6mm sq.mm aluminium cables, testing & commissioning of complete as per specifications.	50.00%
17	17	Total	100.00%
18	18	Completion of SITC of External firefighting works - Fire Pumps, electrical panels, MS piping, valves, hydrants, cables in plant room & pipe works to buildings & main ring complete with all other associated works/ equipment as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 18.0 of Financial Quote Part H) & as per NIT	
18	18.1	On SITC of external fire fighting system work - 50% length complete as per GFC drawings.	50%
18	18.2	On SITC of external fire fighting system work - 100% length complete as per GFC drawings.	50%
18	18	Total	100%
19	19	Completion of Horticulture & tree plantation / shrubs / palms and potted plants operations, i/c site clearance, filling sweet earth, ground covers, grassing etc. complete with all other associated works as per detailed scope of work, technical specification and GFC drawings. (100.00% of the Quoted Amount for Item No. 19.0 of Financial Quote Part H) & as per NIT	
19	19.1	On site clearance and earth filling	40.00%
19	19.2	On mixing earth with cow dung and chemicals and spreading for plantation	10.00%
19	19.3	On grassing's	10.00%
19	19.4	On planting trees, palms, shrubs etc. complete as per landscaping plan complete work including all items not mentioned here but shown in GFC drawings.	40.00%
19	19	Total	100.00%