

**HSCC (INDIA) LIMITED**  
(A GOVERNMENT OF INDIA ENTERPRISE)

Dated: 22.03.2024

**AMENDMENT No.-VII**

**Project Name :** Tender for "Construction of 600 Bedded General Hospital, 250 Bedded Cancer Hospital & 250 Bedded Super Specialty Hospital at Rajarshree Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis"

**Ref. :** NIT/ Tender no. HSCC/RCSMGMC/KOLHAPUR/EPC/2024/30, dated 09/02/2024

This has reference to subject work, the following Amendment may be noted, which shall be treated as a part of the contract to be uploaded along with tender/ bid:

Sl.No.	Ref./Vol./Page No.	As per Existing Provision	As per this Amendment/ Shall be read as
1.	ARCHITECTURE DBR, FINISHING SCHEDULE, PageNo.53	Dado upto1500mm in record rooms, doctor's room, nurses's room, consultation rooms and other support rooms, recovery room, radiology department	Dado upto 1500mm in Record room, Doctors room, Nurses room is deleted. 100mm skirting shall be provided in these area
2.	DESIGN BASIS REPORT ELECTRICAL, CLAUSE 2.3.3 SUBSTATION GUIDELINES	All LT and MV Panels shall have 30% spare outgoing feeders for different rating of feeders.	<b>Shall be read as :</b> "All LT and MV panels shall have 20% as per outgoing feeders for different rating of feeders"
3.	DESIGN BASIS REPORT ELECTRICAL, ELV SERVICES & IBMS SYSTEM, 2.4 ELECTRICAL POWER DISTRIBUTION	Minimum Bus bar size of MV/Floor Panels shall be 300A & 36KA.	<b>Shall be read as :</b> "Bus bar size of MV/ Floor Panel shall be as per I/C feeder rating."

Sl.No.	Ref./Vol./Page No.	As per Existing Provision	As per this Amendment/ Shall be read as
4.	DESIGN BASIS REPORT ELECTRICAL, ELV SERVICES & IBMS SYSTEM, 2.7 INTERNAL ELECTRIFICATION LV & ALLIED WORKS, Page No.15	General Wards with Each Bed- 6 A Raw Power points- 2 nos. 6/16A Raw power points-2Nos. Nurse call bell point - 1 Nos. Night Lamp in each ward - 1 Nos. 6A Raw Power in each ward-1Nos. 6/16 AUPS power points - 1 Nos. - Each Bed Data Point-1nos Data Point-1Nos.- Each Bed  ICU/ICCU Pre-OT, Post-OT, SICU, HDU, MICU, Post Labour ward, with Each Bed 6A UPS Power points-6nos. Each Bed 6/16A UPS power points-6Nos. Each Bed Nurse call bell point-1Nos. Each Bed Data Point - 1nos Each Bed	<b>Shall be read as:</b> <u>General Wards for Each Bed</u> <ul style="list-style-type: none"> <li>• 6 A Raw Power points- 2 nos.</li> <li>• 6/16A Raw power points-2Nos.</li> </ul> (However Raw power bed point as mentioned i.e. 2x6A + 2x16A shall be feed from 3X4 Sq mm wire.) <ul style="list-style-type: none"> <li>• Nurse call bell point - 1 No,</li> <li>• Night lamp in each ward-1 No.</li> <li>• 6A Raw Power in each ward-1No.</li> <li>• 6/16 AUPS power points-1 No.</li> <li>• Data Point-1Nos.</li> </ul> <u>ICU, ICCU, Pre-OT, Post-OT, SICU, HDU, MICU, Post Labour ward for Each Bed</u> <ul style="list-style-type: none"> <li>• 6A UPS Power points-6nos.</li> <li>• 6/16A UPS power points-6Nos.</li> </ul> (If bed head panel provided in ICU, ICCU Pre- OT , Post- OT, SICU, HDU, MICU, Post Labour etc. then only 3X4 Sq mm wiring to be provided upto bed head panel from UPS power.) <ul style="list-style-type: none"> <li>• Nurses call bell point - 1No.</li> <li>• Data Point -1nos</li> </ul>
5.	Volume IV –TECH. SPECS, List of Approved Makes for Electrical System	59. Lifts / Dumb Waiters / Escalators Otis / Mitsubishi/ Scheindler/ Fujitech / Hitachi	<b>Shall be read as :</b> 59. Lifts / Dumb Waiters / Escalators Otis / Mitsubishi/ Scheindler/ Fujitech / Hitachi/ Kone
6.	Volume 05 Design Basis Report, 1.3.8, Page No.8	Two Stage Filtration comprising of Air Filtration System (equivalent to MERV-14) and HEPA Filters (equivalent to MERV 17) for Critical Areas as per ASHRAE.	Minimum filter efficiencies (cc) shall be confirming to Table-7.1 (Design Parameters - Inpatient Space) & Table-8.1 (Design Parameters- Specialized outpatient Spaces) and other relevant clauses of ASHRAE-170-2021 amended upto date.
7.	Volume 05 Design Basis Report : HVAC WORK CLAUSE NO. 1.3.11 Zoning of Area in Central Plant	Fan Coil Unit with 4 pipe system shall have 3 row cooling coil & 1 row heating coil.	Deleted.

Sl.No.	Ref./Vol./Page No.	As per Existing Provision	As per this Amendment/ Shall be read as
8.	Volume05 Design Basis Report, 1.3.14, Page No.10	CT scan, MRI etc. shall have supply and return both ducted with Aluminium Ducting. Ducting, damper, vanes etc all shall be of Aluminium. NOGI /MS shall be used through-ou the supply and return path.	<b>The clause shall be read as:</b> MRI, CT, CSSD & OTs shall have supply and return both ducted with Aluminium Ducting. Ducting, damper, vanes all shall be of Aluminium. NO GI / MS shall be used through-out the supply and return path.
9.	Volume04 Technical Specifications and Make List, Motorized Combined Smoke & Fire Dampers – Spring Return Type, Page No.106	All supply air Ducts in AHU room crossing shall be provided with approved make fire and smoke dampers of at least 90 minutes fire rating & shall be UL certified as per UL555.	<b>The clause shall be read as:</b> All supply air Ducts in AHU room crossing shall be provided with approved make fire and smoke dampers of at least 90 minutes fire rating & shall be CBRI approved (250 deg, 2 hrs).
10.	Volume05DesignBasis Report -DBR. VIII : Development of Data Centre (DC) & Disaster Recovery Centre(DRC),Page No.191	HSCC/Client will decide that out of 3 Hospitals, which one shall act as Disaster Recovery Centre & remaining 2 shall be Data Centre.	There shall be Two data Centre viz DC and DRC. Location for the same will be finalized during detail engineering. For third block Server room infrastructure to be developed as per DBR and specification. For network architecture refer diagram mentioned in DBR
11.	Volume-V Design Basis Report (DBR), 2.9 Fire Detection / Alarm System, Page No.21	e) Cabling shall be with Fire Survival Armoured copper cable or Fire survival Unarmoured cable in MS conduit wherever required due to non false ceiling.	Shall be confirming to NBC-2016 and local fire norms.
12.	G. DESIGN BASIS REPORT- FIREFIGHTING SYSTEM, 1.0 GENERAL, PageNo.97	Fire Fighting system shall comprise of Wet Riser / Hydrant (Internal & External), Sprinkler system, Gas flooding system for panels, Computer Rooms & other sensitive areas, Fire Extinguishers, Fire Signage's near Fireman's lift, Fire Exits, Fire Brigade Inlet/Draw Out Connections etc. proposed for General Hospital Building.	Fire Fighting System shall be confirming to NBC-2016 and local fire norms.

Sl.No.	Ref./Vol./Page No.	As per Existing Provision	As per this Amendment/ Shall be read as
13.	<p>G. DESIGN BASIS REPORT- FIREFIGHTING SYSTEM,</p> <p>4.0 Gas based Fire Suppression System:-</p> <p>4.1 For Server Rooms &amp; Data Centre:, Page No.104</p>	<p>4.1ForServerRooms&amp;DataCentre: The Total Room Flooding system of fire detection and quenching is proposed in all Low Voltage Equipment rooms where Water sprinklers cannot be used. The Gas cylinder assembly should be UL/FM approved with seamless CCOE approved cylinder and will be connected to discharge nozzles throughMetal Piping.</p> <p>The master cylinder Kit fitted on Gas cylinder will be operated through separate Fire detection Panel and will release zero Ozone depletion potential Gas through the nozzles in case of fire.</p>	<p><b>Shall be read as:</b></p> <p>4.1 For Server Rooms &amp; Data Centre: The Total Room Flooding system of fire detection and quenching is proposed in Low Voltage Equipment rooms &amp; Data Centre where Water sprinklers cannot be used.</p> <p>The Gas cylinder assembly should be UL/FM approved with seamless CCOE approved cylinder and will be connected to discharge nozzles through Metal Piping. The master cylinder Kit fitted on Gas cylinder will be operated through separate Fire detection Panel and will release zero Ozone depletion potential Gas through the nozzles in case of fire.</p>
14.	<p>Volume IV - Technical Specifications, LIST OF APPROVEDMAKES LIST FIREFIGHTING WORKS, PageNo.605</p>	<p>34. Grooved Coupling &amp; Fitting : VICTUALIC / SMITHCOOPER / ANVIL</p>	<p><b>Shall be read as under:</b></p> <p>34. Grooved Coupling &amp; Fitting : VICTUALIC / SMITHCOOPER / ANVIL/ AS PER TECHNICAL SPECIFICATIONS</p>
15.	<p>Volume-V - Design Basis Report (DBR) / Electrical DBR</p>	<p>Main LT Panels, all Hospital Block LT Panel, Main HVAC Panel, APFC Panel, AHF Panel shall be Design Verified Assembly (TTA) as per IEC 61439 and as per technical specifications.</p>	<p><b>Shall be read as:</b></p> <p>Main LT Panel of ESS, Main Building Panel of all Blocks, Main HVAC Panel, APFC Panel, AHF Panel shall be Design Verified Assembly (TTA) as per IEC 61439 and as per technical specifications.</p>
16.	<p>Volume-V - Design Basis Report (DBR) / Electrical DBR</p>	<p>All Design Verified Assemblies (TTA) shall be smart type having switchgears (Incoming and Outgoing - ACB &amp; MCCB) communicating their release data over Ethernet and BMS Compatible.</p>	<p><b>Shall be read as:</b></p> <p>“All Design Verified Assemblies (TTA) shall be smart type having switchgears (Incoming and Outgoing - ACB &amp; MCCB) shall be with communicating release with BMS Compatible.</p>

Sl.No.	Ref./Vol./Page No.	As per Existing Provision	As per this Amendment/ Shall be read as
17.	Volume-V - Design Basis Report (DBR) / DBR Structure	4.3 Brickwork All brickwork shall be Flyash brick, unless otherwise specified.	<b>Shall be read as:</b> 4.3 Brickwork All brickwork shall be Flyash brick/AAC Block, unless otherwise specified.

18. Refer - Clause - 16. B) “Milestones” of Volume-III – SCC are hereby amended and “**Amended –Milestones**” are as under :

Milestone	Activity to be completed	Time allowed in months (from date of start)	Amount to be withhold from non-achieving of each milestone (% of total awarded value)
1.	To obtain pre-construction approvals from all statutory/local authorities	3 Months	0.25%
2.	Submission and approval of GFC drawings duly vetted by IIT/NIT for Structure Drawings	3 Months	0.25%
3.	Substantial completion of RCC work up to plinth level	6 Months	0.50%
4.	Preparation of sample toilet & consultant room	10 months	0.25%
5.	Substantial Completion of all RCC works up to terrace level only for all buildings	12 months	0.50%
6.	Substantial Completion of Brickwork and Internal Plaster/flooring for Hospital	16 Months	1.00%
7.	Substantial Completion of Road network and external Development works	16 months	0.50%
8.	Substantial Completion of all External Plaster/External finishing, UG tanks, STP, ETP, WTP, Special services, Internal Plumbing, firefighting, Electrical wiring/HVAC & IT work.	20 Months	1.00%
9.	Completion of all works in all respects including all internal/external works including all civil, electrical, HVAC STP, ETP, works, WTP, Special services, Solar hot water system external and like Roads, development works Horticulture, footpath, works and Furniture Testing and commissioning etc.	24 Months	0.50%
10.	Submission of as built drawings, Operation manuals and post construction approval from statutory/local authorities	24 Months	0.25%

- 19.** Refer - Clause - 17. A) “Stage Payment Statement for Works” of Volume-III – SCC is here by amended and “**Amended - Schedule of Stage Payments of Works (Annexure-A)**” enclosed at Annexure-A:

All other terms & Conditions of the Tender shall remain unchanged.

Prospective bidders are advised to regularly scan through HSCC e-tender portal <https://hsc.enivida.com>& HSCC website <http://www.hsccltd.co.in> as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.

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Chief General Manager  
HSCC (India) Ltd.

**AMENDED - SCHEDULE OF STAGE PAYMENT OF WORKS****Payment Schedule :** The Amount quoted by the Contractor shall be divided as follows:

<b>S.no</b>	<b>Description</b>	<b>Individual %</b>	<b>Cumulative %</b>
<b>1</b>	600 Bedded General Hospital	45%	<b>45%</b>
<b>2</b>	250 Bedded Cancer Hospital	28%	<b>73%</b>
<b>3</b>	250 Bedded Super Specialty Hospital	27%	<b>100%</b>
		<b>100%</b>	

SCHEDULE OF PAYMENTS - 600 BEDDED GENERAL HOSPITAL				
Sl No	Description	Item %	Individual %	Cumm %
1	Construction of 600 Bedded General Hospital at Rajarshree Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC)	Total Cost Component = 45% of CPT		
A	Civil, plumbing & Firefighting works		54.00%	54.00%
A-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			
A-1 (a)	Civil Architectural ( Site Layout Plan with Building Coordinates, Submission of model, Building Plans, Sections and Elevations, Flooring Plans & Dado Details with sections and elevations, 3D Views for all locations such as Consultant room, lobby, ICU, Corridor, Toilet, OT, terrace garden etc and finishing schedule for all floors, Bunker, CT scan, MRI, Brachytherapy Room Details, Door and Window details, Road, parking, footpath layout and external development plans with sections, Plantation Layout mentioning species names, size and height, External Street Lighting layout plan with material schedule, External and internal signages details etc.), Structure drawings (Foundation drawings, Bunker/LINAC/Brachytherapy/Nuclear Medicine/Radiology structural details, Beam and slab reinforcement details, Road, trench, culvert, parking, RCC Drain, sewerage, effluent, storm water layout, Footpath Details, Underground tank details , STP and ETP details etc. ), PHE drawings (Building plumbing and sanitary details, Sewerage scheme and details, Drainage scheme and details, Water supply scheme and details, STP, ETP, R.O- Mechanical GA, HFD etc., Rain Water Harvesting, Underground tank and water treatment plant schematic details, Water Pumps technical details and data sheet etc.), flooring & finishing & signage works	100.00%	0.50%	0.50%
A-2	Upon receipt of Pre and post Local Body Clearances/Approvals/NOCs			
A-2(a)	Pre-Construction Approvals/Clearances viz., Technical Clearance from Town and Country Planning Department, Environmental Clearance (EIA), Pre construction Clearance from Fire Department, Consent to establish from Pollution Control Board, Labour License, NOC from Forest Department, Construction Permit/License from Village Panchayat, NOC from Health Department etc. Post-construction Approvals viz., Consent to operate including EC compliances from Pollution Control Board, Occupancy Certificate from Village Panchayat, Final Clearance/NOC from Fire Department, GRIHA Certification (Minimum 3 star), Clearance from Electrical Inspectorate & Lift Inspectorate etc.	100.00%	0.50%	0.50%
A-3	Construction: Civil Works			
A-3(a)	Foundation Work: On completion of foundation and substructure up to plinth level	9.00%	37.00%	3.33%
A-3(b)	Super Structure RCC Work of the entire building from ground floor to stair roof, overhead tank, mummy, LMR etc.	35.00%		12.95%
A-3(c)	Walls & Portion :Brickwork & partitioning work including brick work	6.00%		2.22%
A-3(d)	Doors & Windows i/c windows to meet Acoustical requirement.	6.00%		2.22%
A-3(e)	Flooring, skirting, dado, wall lining work, acoustic insulation, wall guard, tactile tile flooring etc.	18.00%		6.66%
A-3(f)	False Ceiling , terracing , water proofing etc.	8.00%		2.96%
A-3(g)	Finishing work :Internal & External Plaster & Painting	5.00%		1.85%
A-3(h)	External Structure Glazing, GRC Jali, External Cladding including framing and water-proofing etc	9.00%		3.33%
A-3(i)	SS/MS Railing (including epoxy painting) /Grills/domes etc	2.00%		0.74%
A-3(j)	Other Works: Signages (Internal & External), Internal Courtyard - Hard landscaping	2.00%		0.74%
A-4	Fire fighting System works (Execution)			
A-4(a)	Wet Riser System /Down Comer System	35.00%	4.00%	1.40%
A-4(b)	Automatic Sprinkler System	20.00%		0.80%
A-4(c)	Fire Extinguishers	10.00%		0.40%
A-4(d)	Fire Hydrant Installation as per DBR/Specification	25.00%		1.00%
A-4(e)	Fire sealing of the ducts and shafts	10.00%		0.40%
A-5	Execution of Internal PHE works including water supply and sewerage system including fittings and fixtures			
A-5(a)	Laying & Fixing of Internal water Supply & Sewerage Pipe Lines	35.00%	3.00%	1.05%
A-5(b)	Installation of Fitting & fixtures	65.00%		1.95%
A-6	External Development: Planning, Designing, and Construction on EPC Basis of External Development including various infrastructure required and as specified in the approved Master plan including Roads Street Lighting, Tree Plantation Horticulture, Landscaping etc. with support services & allied facilities by incorporating stipulated specifications, as per scope of work and directions of Engineer In charge			
A-6(a)	Signage	20.00%	1.00%	0.20%
A-6(b)	Horticulture Operations including 30cm earth filing , grassing , tree plantations/shrubs and potted Plants etc.	80.00%		0.80%
A-7	External and Internal Roads , Footpaths & Parking : Base Preparation Formation Level, Compaction, GSB Laying & Compaction, Concrete in Pavement, Expansion Joint Treatment, Paver Block / CC Flooring in footpath, Footpath Railing, Kerbstone in Footpath & Road Dividers, Paver Block/ Concrete Flooring in Parking with Demarcation/ signages.			
A-7(a)	Formation Level, Compaction, GSB Laying & Compaction	15.00%	2.00%	0.30%
A-7(b)	Concrete in Pavement, Expansion Joint Treatment,	20.00%		0.40%
A-7(c)	Paver Block / CC Flooring in footpath, Footpath Railing, Kerbstone in Footpath & Road Dividers	15.00%		0.30%
A-7(d)	Paver Block/ Concrete Flooring in Parking with Demarcation/ signages.	20.00%		0.40%
A-8	External PHE works (Execution)			
A-8(a)	Underground Tank	12.00%	6.00%	0.72%
A-8(b)	Domestic Terrace Tank	9.00%		0.54%
A-8(c)	Fire Terrace Tank	1.00%		0.06%
A-8(d)	Solar Hot water System	2.00%		0.12%
A-8(e)	Sewage & Effluent Treatment Plant (STP & ETP)	14.00%		0.84%
A-8(f)	Borewell	1.00%		0.06%
A-8(g)	Hydro pneumatic system/WTP/Softener/RO/water cooler	5.00%		0.30%
A-8(h)	Water curtain	1.00%		0.06%
A-8(i)	External Sewer & Drainage	9.00%		0.54%
A-8(j)	Filter Water Supply (Distribution Lines & Peripheral Grid )	10.00%		0.60%
A-8(k)	Unfiltered Water Supply Distribution Lines	11.00%		0.66%
A-8(l)	Storm Water Drainage pipelines	11.00%		0.66%
A-8(m)	Rain water harvesting	14.00%		0.84%
B	Electrical		15.00%	69.00%
B-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			



SI No	Description	Item %	Individual %	Cumm %
1	<b>Construction of 600 Bedded General Hospital at Rajarshree Chhatrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC)</b>	Total Cost Component = 45% of CPT		
B-1(a)	Submission of Credential, Shop Drawings & technical datasheets for Electrical works viz., Electrical power and lighting layout plans, Transformer technical details and data sheet, Electrical Substation Layout and GA drawings and technical datasheets of all electrical panels such as HT,LT, MV and road lighting panels etc., GA drawings and technical data sheets of bus duct, DG set and AMF panel, Earthing details Layout and lightening protection drawing, Cable schedule (Internal and external), External Street Lighting Layout, CCTV, telephone, Fire alarm system, PAS, Nurse call system, Access control, BMS Layout, Lift and dumb waiter Technical datasheets and drawings			
B-1(b)	Submission and approval of shop drawings for conduiting and wiring of electrical layout of lighting, power of all the	10.00%	0.30%	0.03%
B-1(c)	Submission and approval of shop drawings for conduiting and wiring of electrical layout of LV works (i.e. CCTV, PA system, FDA, EPABX, access control IBMS, NCS, solar PV, external CCTV and PA etc.) of all the floors	20.00%		0.06%
B-1(d)	Submission and approval of shop drawings for electrical layout of sub station.	40.00%		0.12%
B-1(e)	Submission and approval of Technical data sheet of all electrical equipments.	30.00%		0.09%
B-2	<b>Internal Electrical works :</b>			
B-2(a)	<b>Slab conduiting, wall conduiting, wiring (Point wiring, 5amp &amp; 15/20 amp), GI Boxes, switch plates and sockets and all other accessories</b>			
B-2(a)-1	supply and laying of Slab conduiting, & wall conduiting (complete up to points)	30.00%	1.20%	0.36%
B-2(a)-2	supply and Fixing of GI Boxes & wiring of Points, 5Amp plug and 15 Amp points etc, complete	40.00%		0.48%
B-2(a)-3	supply and Fixing of switch and sockets and terminations of wires	30.00%		0.36%
B-2(b)	<b>Distribution Boards and MCBs completes with Accessories</b>			
1-B2-i	supply of Distribution Boards with MCBs	60.00%	0.15%	0.090%
1-B2-ii	Installation with MCBs in DB all accessories with termination of all wires with ferruling	40.00%		0.060%
B-2(c)	<b>Submain, conduiting and submain wiring, cable tray raceway etc</b>			
1-B3-i	Supply of Submain, conduiting and submain wiring, cable tray raceway	50.00%	1.50%	0.75%
1-B3-ii	Installation / laying of Submain, conduiting and submain wiring, cable tray raceway	50.00%		0.75%
B-2(d)	<b>Rising Mains, end feed units &amp; tap off etc completes with accessories</b>			
1-B4-i	Supply of Rising Mains, end feed units & tap off etc completes with Accessories	70.00%	0.35%	0.245%
1-B4-ii	Installation of Rising Mains, end feed units & tap off etc completes with Accessories	30.00%		0.105%
B-2(e)	<b>MV panels, /Floor panels, Metering panels</b>			
1-B5-i	Supply of MV panels, /Floor panels, Metering panels	70.00%	0.15%	0.105%
1-B5-ii	Installation of MV panels, /Floor panels, Metering panels	30.00%		0.045%
B-2(f)	<b>Light Fixtures, fans Exhaust fans and Aviation Light and accessories.</b>			
1-B6-i	Supply of Light Fixtures, fans Exhaust fans and Aviation Light and accessories.	70.00%	0.60%	0.42%
1-B6-ii	Installation of Light Fixtures, fans Exhaust fans and Aviation Light and accessories.	30.00%		0.18%
B-3	<b>L V SYSTEM</b>			
B-3(a)	<b>CCTV Surveillance System including cameras, switches, cables, conduiting etc,</b>			
B-3(a)-1	Slab conduiting/ wall conduiting for CCTV system	10.00%	0.60%	0.06%
B-3(a)-2	Wiring of CCTV system	30.00%		0.18%
B-3(a)-3	Supply of CCTV System	40.00%		0.24%
B-3(a)-4	Installation of CCTV System	20.00%		0.12%
B-3(b)	<b>Fire Alarm System including conduiting, all devices, panel, hooters, cables etc</b>			
B-3(b)-1	Slab conduiting/ wall conduiting for FDS system	10.00%	0.50%	0.05%
B-3(b)-2	Wiring for FDA devices	30.00%		0.15%
B-3(b)-3	Supply of FDA system including, switches, patch cords etc	40.00%		0.20%
B-3(b)-4	Installation of FDA System complete	20.00%		0.10%
B-3(c)	<b>Public Address system ncluding conduiting, all devices, Speakers, amplifries cables etc</b>			
B-3(c)-1	Slab conduiting/ wall conduiting	10.00%	0.15%	0.02%
B-3(c)-2	Wiring for PA system	30.00%		0.05%
B-3(c)-3	Supply of PA system	40.00%		0.06%
B-3(c)-4	Installation of PA System	20.00%		0.03%
B-3(d)	<b>Audio Visual system completes with devices &amp; accessories</b>			
B-3(d)-1	Slab conduiting/ wall conduiting	10.00%	0.10%	0.01%
B-3(d)-2	Wiring for AV system	30.00%		0.03%
B-3(d)-3	Supply of AV system	40.00%		0.04%
B-3(d)-4	Installation of AV System	20.00%		0.02%
B-3(e)	<b>Telephone/ IPBAX system completes with devices &amp; accessories</b>			
B-3(e)-1	Slab conduiting/ wall conduiting	10.00%	0.40%	0.04%
B-3(e)-2	wiring for IPBAX system	30.00%		0.12%
B-3(e)-3	Supply of IPBAX system including all software and all accessories to complete the commissioning the system	30.00%		0.12%
B-3(e)-4	Supply of Instruments	10.00%		0.04%
B-3(e)-5	Installation of IPBAX System	20.00%		0.08%
B-4	<b>TV system</b>			
B-4(a)	Slab conduiting/ wall conduiting	40.00%	0.02%	0.008%
B-4(b)	wiring for TV system/ GI boex and switch sokets and other necessary items for commisiiong the system	60.00%		0.012%
B-5	<b>Nurse call bell system with devices &amp; accessories</b>			
B-5(a)	Slab conduiting/ wall conduiting	10.00%	0.50%	0.05%
B-5(b)	Wiring for NCS system	30.00%		0.15%
B-5(c)	Supply of NCS system including all software and all accessories to complete the commissioning the system	40.00%		0.20%
B-5(d)	Installation of NCS System	20.00%		0.10%
B-6	<b>LIFT AND DUMB WAITER</b>			
B-6(a)	Lifts & dumb waiter with all accesories for commissioning			

SI No	Description	Item %	Individual %	Cumm %
1	<b>Construction of 600 Bedded General Hospital at Rajarshree Chatrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC)</b>	<b>Total Cost Component = 45% of CPT</b>		
B-6(a)-1	Supply of Lifts and Dumb waiter	60.00%	1.05%	0.63%
B-6(a)-2	Installation of Lifts and Dumb waiter for commissioning	40.00%		0.42%
B-7	<b>BMS</b>			
B-7(a)	<b>Building Management system with devices &amp; accessories</b>			
B-7(a)-1	Slab conduiting/ wall conduiting	10.00%	0.80%	0.08%
B-7(a)-2	wiring for BMS system	25.00%		0.20%
B-7(a)-3	Supply of BMS system including all software and all accessories to complete the commissioning the system	35.00%		0.28%
B-7(a)-4	Installation of BMS System	30.00%		0.24%
B-8	<b>External Electrical:</b>			
B-8(a)	<b>HT panels</b>			
B-8(a)-1	supply	70.00%	0.40%	0.28%
B-8(a)-2	Installation	30.00%		0.12%
B-8(b)	<b>Main LT Panels</b>			
B-8(b)-1	supply	70.00%	0.80%	0.56%
B-8(b)-2	Installation	30.00%		0.24%
B-8(c)	<b>APFC Panel</b>			
B-8(c)-1	supply	70.00%	0.40%	0.28%
B-8(c)-2	Installation	30.00%		0.12%
B-8(d)	<b>BUS DUCT</b>			
B-8(d)-1	supply	70.00%	0.40%	0.28%
B-8(d)-2	Installation	30.00%		0.12%
B-8(e)	<b>Transformer</b>			
B-8(e)-1	supply	70.00%	1.00%	0.70%
B-8(e)-2	Installation	30.00%		0.30%
B-8(f)	<b>DG-Set and synchronisation panel with control cabling &amp; other accessories to complete for commissioning the system</b>			
B-8(f)-1	supply	70.00%	1.20%	0.84%
B-8(f)-2	Installation	30.00%		0.36%
B-8(g)	<b>HT CABLES</b>			
B-8(g)-1	Supply of HT cables	70.00%	0.20%	0.14%
B-8(g)-2	Laying of HT Cabled	30.00%		0.06%
B-8(h)	<b>LT CABLES</b>			
B-8(h)-1	Supply of LT/ Control Cables cables	70.00%	0.80%	0.56%
B-8(h)-2	Laying of LT/ Control Cables	30.00%		0.24%
B-8(i)	<b>Earthing</b>			
B-8(i)-1	Supply	50.00%	0.20%	0.10%
B-8(i)-2	Installation	50.00%		0.10%
B-8(j)	<b>Solar Photovoltaic Power generation</b>			
B-8(j)-1	Supply	50.00%	0.50%	0.25%
B-8(j)-2	Installation	50.00%		0.25%
B-8(k)	<b>External Lighting</b>			
B-8(k)-1	supply	50.00%	0.15%	0.075%
B-8(k)-2	Installation	50.00%		0.075%
B-8(l)	<b>Safety Materials</b>			
B-8(l)-1	Supply	50.00%	0.02%	0.01%
B-8(l)-2	Installation	50.00%		0.01%
B-8(m)	<b>Boom barrier</b>			
B-8(m)-1	supply	70.00%	0.01%	0.007%
B-8(m)-2	Installation	30.00%		0.003%
B-8(n)	<b>UPS</b>			
B-8(n)-1	Supply of UPS	50.00%	0.40%	0.20%
B-8(n)-2	Installation of UPS	10.00%		0.04%
B-8(n)-3	Supply Battery of UPS	20.00%		0.08%
B-8(n)-4	Installation Battery of UPS	20.00%		0.08%
B-8(o)	<b>Fire Suppression system (Gas flooding System)</b>			
B-8(o)-1	Supply	60.00%	0.15%	0.09%
B-8(o)-2	Installation	40.00%		0.06%
C	<b>HVAC</b>		10.00%	79.00%
C-1	<b>On submission and approval of Good for construction Drawings &amp; Design Deliverables from HSCC</b>			
C-1(a)	Submission of Credential, Shop Drawings for HVAC works viz., SLD layout for Master plan, HVAC electrical system, Plant Room technical details, drawings for cooling tower, chillers, pumps etc, Ducting layout, drawings of HVAC Plant	60.00%	0.25%	0.15%
C-1(b)	Submission of technical datasheets for HVAC works viz., Plant Room equipment technical details, data sheet and drawings for cooling tower, chillers, pumps, AHU, HWG, Fans, etc, Low side & electrical technical data sheet etc.	40.00%		0.10%
C-2	<b>HVAC -Works</b>			
C-2(a)	<b>Highside Equipment</b>			

SI No	Description	Item %	Individual %	Cumm %
1	<b>Construction of 600 Bedded General Hospital at Rajarshree Chhatrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC)</b>	<b>Total Cost Component = 45% of CPT</b>		
C-2(a)-1	Supply of CHILLER	55.00%	2.50%	1.375%
C-2(a)-2	Installation of CHILLER	20.00%		0.500%
C-2(a)-3	SUPPLY OF PUMP	8.00%		0.200%
C-2(a)-4	INSTALLATION OF PUMP	5.00%		0.125%
C-2(a)-5	SUPPLY OF COOLING TOWER	5.00%		0.125%
C-2(a)-6	INSTALLATOION OF COOLING TOWER	3.00%		0.075%
C-2(a)-7	SUPPLY OF OTHER EQUIP Viz. Hot Water Generator	2.00%		0.050%
C-2(a)-8	INSTALLATION OF OTHER EQUIP Viz. Hot Water Generator	2.00%		0.050%
<b>C-2(b)</b>	<b>Low Side Equipment</b>			
C-2(b)-1	SUPPLY OF AHU+CSU	12.00%	6.25%	0.750%
C-2(b)-2	INSTALLATION OF AHU+CSU	5.00%		0.313%
C-2(b)-3	SUPPLY OF Ventilation Fans VIZ INLINE, AXIAL, CENTRIFUGAL, AIR WASHER, FAN SECTION ETC	6.50%		0.406%
C-2(b)-4	INSTALLATION OF OF Ventilation Fans	3.00%		0.188%
C-2(b)-5	SUPPLY OF OTHER EQUIP VIZ EXPENSION TANK	1.00%		0.063%
C-2(b)-6	INSTALLATION OF OTHER EQUIP VIZ EXPENSION TANK	0.50%		0.031%
C-2(b)-7	SUPPLY OF Piping & Fittings VIZ VALVES ETC	20.00%		1.250%
C-2(b)-8	INSTALLATION OF Piping & Fittings VIZ VALVES ETC	8.00%		0.500%
C-2(b)-9	SUPPLY OF Ducting	17.00%		1.063%
C-2(b)-10	INSTALLATION OF Ducting	7.00%		0.438%
C-2(b)-11	SUPPLY OF ADP	5.00%		0.313%
C-2(b)-12	INSTALLATION OF ADP	2.00%		0.125%
C-2(b)-13	SUPPLY OF Insulation	9.00%		0.563%
C-2(b)-14	INSTALLATION OF Insulation	4.00%		0.250%
<b>C-2(c)</b>	<b>HVAC Electrical works</b>			
C-2(c)-1	SUPPLY OF Panels VIZ Main HVAC, distribution , starter etc.	25.00%	1.00%	0.250%
C-2(c)-2	Installation OF Panels VIZ Main HVAC, distribution , starter etc.	10.00%		0.100%
C-2(c)-3	Supply of Cable	45.00%		0.450%
C-2(c)-4	Installation of of Cable	20.00%		0.200%
<b>D</b>	<b>IT Work</b>		<b>5.00%</b>	<b>84.00%</b>
D-1	IT & Special Services drawing & Design Deliverables viz.,submission of agency credentials, technical datasheets, shop	100.00%	0.25%	0.25%
<b>D-2</b>	<b>IT SERVICES (Execution)</b>			
<b>D-2(a)</b>	<b>HMIS including Tele-Medicine Software</b>			
D-2(a)-1	Against Preparation & Acceptance by Client	30.00%	0.70%	0.210%
D-2(a)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.280%
D-2(a)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.140%
D-2(a)-4	Handing over of the system to client.	5.00%		0.035%
D-2(a)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.035%
<b>D-2(b)</b>	<b>PACS Software</b>			
D-2(b)-1	Against Preparation & Acceptance by Client	30.00%	0.25%	0.075%
D-2(b)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.100%
D-2(b)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.050%
D-2(b)-4	Handing over of the system to client.	5.00%		0.013%
D-2(b)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.013%
<b>D-2(c)</b>	<b>PACS Hardware</b>			
D-2(c)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.60%	0.420%
D-2(c)-2	Installation and commissioning of the equipments.	20.00%		0.120%
D-2(c)-3	Handing over to client	5.00%		0.030%
D-2(c)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.030%
<b>D-2(d)</b>	<b>Server Hardware &amp; System Software</b>			
D-2(d)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.50%	0.350%
D-2(d)-2	Installation and commissioning of the equipments.	20.00%		0.100%
D-2(d)-3	Handing over to client	5.00%		0.025%
D-2(d)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.025%
<b>D-2(e)</b>	<b>Lan &amp; Wifi Components</b>			
D-2(e)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.95%	0.665%
D-2(e)-2	Installation and commissioning of the equipments.	20.00%		0.190%
D-2(e)-3	Handing over to client	5.00%		0.048%
D-2(e)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.048%
<b>D-2(f)</b>	<b>Computer Hardware including Tele-Medicine Hardware etc.</b>			
D-2(f)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.95%	0.665%
D-2(f)-2	Installation and commissioning of the equipments.	20.00%		0.190%
D-2(f)-3	Handing over to client	5.00%		0.048%
D-2(f)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.048%
<b>D-2(g)</b>	<b>QMS Hardware</b>			
D-2(g)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.20%	0.140%
D-2(g)-2	Installation and commissioning of the equipments.	20.00%		0.040%
D-2(g)-3	Handing over to client	5.00%		0.010%
D-2(g)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.010%
<b>D-2(h)</b>	<b>QMS Software</b>			
D-2(h)-1	Against Preparation & Acceptance by Client	30.00%	0.10%	0.030%
D-2(h)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.040%
D-2(h)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.020%
D-2(h)-4	Handing over of the system to client.	5.00%		0.005%

SI No	Description	Item %	Individual %	Cumm %
1	Construction of <b>600 Bedded General Hospital</b> at Rajarshree Chatrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC)	Total Cost Component = 45% of CPT		
D-2(h)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.005%
D-2(i)	<b>Network &amp; Application Support Engineers</b>			
	1st year			
D-2(f)-1	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-2	Qtr 3+Qtr 4	50.00%		0.050%
	2nd Year			
D-2(f)-3	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-4	Qtr 3+Qtr 4	50.00%		0.050%
	3rd year			
D-2(f)-5	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-6	Qtr 3+Qtr 4	50.00%		0.050%
	4th year			
D-2(f)-7	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-8	Qtr 3+Qtr 4	50.00%		0.050%
	5th year			
D-2(f)-9	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-10	Qtr 3+Qtr 4	50.00%		0.050%
E	<b>SES</b>		<b>11.00%</b>	<b>95.00%</b>
E-1	<b>On submission and approval of Good for construction Drawings &amp; Design Deliverables from HSCC</b>			
	Submission of Credential , Shop Drawings & technical datasheets for specialized services viz. , Kitchen, CSSD, Laundry, PTS, Operation Theatres, MGPS etc.	100.00%	0.25%	0.25%
E-1	<b>Special Services*</b>			
E-1 (a)	Medical Gas Manifold System	29.00%	10.75%	3.1175%
E-1 (b)	Modular Operation Theatre	33.00%		3.5475%
E-1 (c)	Minor Operation Theatre	2.00%		0.2150%
E-1 (d)	CSSD	15.00%		1.6125%
E-1 (e)	Laundry	5.00%		0.5375%
E-1 (f)	Kitchen	3.00%		0.3225%
E-1 (g)	Pneumatic Tube Transfer System	13.00%		1.3975%
	*The stage payment of Special Services is further subdivided as: (a) 75% against supply & installation of equipment/items (b) 15% against testing & commissioning of special services and (c) 10% against demonstration & handing over of special services to Client.			
F	<b>Testing, Commissioning and Handover</b>		<b>5%</b>	<b>100%</b>
F-1	Testing and Commissioning	50%	5.0%	2.50%
F-2	Handover to the Client	50%		2.50%

SCHEDULE OF PAYMENTS - 250 BEDDED CANCER HOSPITAL				
Sl No	Description	Item %	Individual %	Cumm %
2	Construction of <u>250 Bedded Cancer Hospital</u> at Rajarshee Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis	Total Cost Component = 28% of CPT		
A	Civil, plumbing & Firefighting works		54.00%	54.00%
A-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			
A-1 (a)	Civil Architectural ( Site Layout Plan with Building Coordinates, Submission of model, Building Plans, Sections and Elevations, Flooring Plans & Dado Details with sections and elevations, 3D Views for all locations such as Consultant room, lobby, ICU, Corridor, Toilet, OT, terrace garden etc and finishing schedule for all floors, Bunker, CT scan, MRI, Brachytherapy Room Details, Door and Window details, Road, parking, footpath layout and external development plans with sections, Plantation Layout mentioning species names, size and height, External Street Lighting layout plan with material schedule, External and internal signages details etc.), Structure drawings (Foundation drawings, Bunker/LINAC/Brachytherapy/Nuclear Medicine/Radiology structural details, Beam and slab reinforcement details, Road, trench, culvert, parking, RCC Drain, sewerage, effluent, storm water layout, Footpath Details, Underground tank details, STP and ETP details etc. ), PHE drawings (Building plumbing and sanitary details, Sewerage scheme and details, Drainage scheme and details, Water supply scheme and details, STP, ETP, R.O- Mechanical GA, HFD etc., Rain Water Harvesting, Underground tank and water treatment plant schematic details, Water Pumps technical details and data sheets etc.), flooring & finishing & signage works	100.00%	0.50%	0.50%
A-2	Upon receipt of Pre and post Local Body Clearances/Approvals/NOCs			
A-2(a)	Pre-Construction Approvals/Clearances viz., Technical Clearance from Town and Country Planning Department, Environmental Clearance (EIA), Pre construction Clearance from Fire Department, Consent to establish from Pollution Control Board, Labour License, NOC from Forest Department, Construction Permit/License from Village Panchayat, NOC from Health Department etc. Post-construction Approvals viz., Consent to operate including EC compliances from Pollution Control Board, Occupancy Certificate from Village Panchayat, Final Clearance/NOC from Fire Department, GRIHA Certification (Minimum 3 star), Clearance from Electrical Inspectorate & Lift Inspectorate etc.	100.00%	0.50%	0.50%
A-3	Construction: Civil Works			
A-3(a)	Foundation Work: On completion of foundation and substructure up to plinth level	9.00%	37.00%	3.33%
A-3(b)	Super Structure RCC Work of the entire building from ground floor to stair roof, overhead tank, mummy, LMR etc.	35.00%		12.95%
A-3(c)	Walls & Partition :Brickwork & partitioning work including brick work	6.00%		2.22%
A-3(d)	Doors & Windows i/c windows to meet Acoustical requirement.	6.00%		2.22%
A-3(e)	Flooring, skirting, dado, wall lining work, acoustic insulation, wall guard, tactile tile flooring etc.	18.00%		6.66%
A-3(f)	False Ceiling, terracing, water proofing etc.	8.00%		2.96%
A-3(g)	Finishing work :Internal & External Plaster & Painting	5.00%		1.85%
A-3(h)	External Structure Glazing, GRC Jali, External Cladding including framing and water-proofing etc	9.00%		3.33%
A-3(i)	SS/MS Railing (including epoxy painting) /Grills/domes etc	2.00%		0.74%
A-3(j)	Other Works:Signages (Internal & External), Internal Courtyard - Hard landscaping	2.00%		0.74%
A-4	Fire fighting System works (Execution)			
A-4(a)	Wet Riser System /Down Comer System	35.00%	4.00%	1.40%
A-4(b)	Automatic Sprinkler System	20.00%		0.80%
A-4(c)	Fire Extinguishers	10.00%		0.40%
A-4(d)	Fire Hydrant Installation as per DBR/Specification	25.00%		1.00%
A-4(e)	Fire sealing of the ducts and shafts	10.00%		0.40%
A-5	Execution of Internal PHE works including water supply and sewerage system including fittings and fixtures			
A-5(a)	Laying & Fixing of Internal water Supply & Sewerage Pipe Lines	35.00%	3.00%	1.05%
A-5(b)	Installation of Fitting & fixtures	65.00%		1.95%
A-6	External Development: Planning, Designing, and Construction on EPC Basis of External Development including various infrastructure required and as specified in the approved Master plan including Roads Street Lighting, Tree Plantation Horticulture, Landscaping etc. with support services & allied facilities by incorporating stipulated specifications, as per scope of work and directions of Engineer In charge			
A-6(a)	Signage	20.00%	1.00%	0.20%
A-6(b)	Horticulture Operations including 30cm earth filling, grassing, tree plantations/shrubs and potted Plants etc.	80.00%		0.80%
A-7	External and Internal Roads, Footpaths & Parking : Base Preparation Formation Level, Compaction, GSB Laying & Compaction, Cocerete in Pavment, ExpansionJoint Treatment, Paver Block / CC Flooring in footpath, Footpath Railing, Kerbstone in Footpath & Road Dividers, Paver Block/ Concrete Flooring in Parking with Demarcation/ signages.			
A-7(a)	Formation Level, Compaction, GSB Laying & Compaction	15.00%	2.00%	0.30%
A-7(b)	Cocerete in Pavment, ExpansionJoint Treatment,	20.00%		0.40%
A-7(c)	Paver Block / CC Flooring in footpath, Footpath Railing, Kerbstone in Footpath & Road Dividers	15.00%		0.30%
A-7(d)	Paver Block/ Concrete Flooring in Parking with Demarcation/ signages.	20.00%		0.40%
A-8	External PHE works (Execution)			
A-8(a)	Underground Tank	12.00%	6.00%	0.72%
A-8(b)	Domestic Terrace Tank	9.00%		0.54%
A-8(c)	Fire Terrace Tank	1.00%		0.06%
A-8(d)	Solar Hot water System	2.00%		0.12%
A-8(e)	Sewage & Effluent Treatment Plant (STP & ETP)	14.00%		0.84%
A-8(f)	Borewell	1.00%		0.06%
A-8(g)	Hydropneumatic system/WTP/Softner/RO/water cooler	5.00%		0.30%
A-8(h)	Water curtain	1.00%		0.06%
A-8(i)	External Sewer & Drainage	9.00%		0.54%
A-8(j)	Filter Water Supply (Distribution Lines & Perpherial Grid )	10.00%		0.60%
A-8(k)	Unfiltered Water Supply Distribution Lines	11.00%		0.66%
A-8(l)	Storm Water Drainage pipelines	11.00%		0.66%
A-8(m)	Rain water harvesting	14.00%		0.84%
B	Electrical		15.00%	69.00%
B-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			

SI No	Description	Item %	Individual %	Cumm %
2	Construction of 250 Bedded Cancer Hospital at Rajarshree Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis	Total Cost Component = 28% of CPT		
B-1(a)	Submission of Credential, Shop Drawings & technical datasheets for Electrical works viz., Electrical power and lighting layout plans, Transformer technical details and data sheet, Electrical Substation Layout and GA drawings and technical datasheets of all electrical panels such as HT,LT, MV and road lighting panels etc., GA drawings and technical data sheets of busduct, DG set and AMF panel, Earthing details Layout and lightning protection drawing, Cable schedule (Internal and external), External Street Lighting Layout, CCTV, telephone, Fire alarm system, PAS, Nurse call system, Access control, BMS Layout, Lift and dumb waiter Technical datasheets and drawings			
B-1(b)	Submission and approval of shop drawings for conducting and wiring of electrical layout of lighting, power of all the	10.00%	0.30%	0.03%
B-1(c)	Submission and approval of shop drawings for conducting and wiring of electrical layout of LV works (i.e. CCTV, PA system, FDA, EPABX, access control IBMS, NCS, solar PV, external CCTV and PA etc.) of all the floors	20.00%		0.06%
B-1(d)	Submission and approval of shop drawings for electrical layout of sub station.	40.00%		0.12%
B-1(e)	Submission and approval of Technical data sheet of all electrical equipments.	30.00%		0.09%
B-2	Internal Electrical works :			
B-2(a)	Slab conducting, wall conducting, wiring (Point wiring, 5amp & 15/20 amp), GI Boxes, switch plates and sockets and all other accessories			
B-2(a)-1	supply and laying of Slab conducting, & wall conducting (complete up to points)	30.00%	1.20%	0.36%
B-2(a)-2	supply and Fixing of GI Boxes & wiring of Points, 5Amp plug and 15 Amp points etc., complete	40.00%		0.48%
B-2(a)-3	supply and Fixing of switch and sockets and terminations of wires	30.00%		0.36%
B-2(b)	Distribution Boards and MCBs completes with Accessories			
1-B2-i	supply of Distribution Boards with MCBs	60.00%	0.15%	0.090%
1-B2-ii	Installation with MCBs in DB all accessories with termination of all wires with ferruling	40.00%		0.060%
B-2(c)	Submain, conducting and submain wiring, cable tray raceway etc			
1-B3-i	Supply of Submain, conducting and submain wiring, cable tray raceway	50.00%	1.50%	0.75%
1-B3-ii	Installation / laying of Submain, conducting and submain wiring, cable tray raceway	50.00%		0.75%
B-2(d)	Rising Mains, end feed units & tap off etc completes with accessories			
1-B4-i	Supply of Rising Mains, end feed units & tap off etc completes with Accessories	70.00%	0.35%	0.245%
1-B4-ii	Installation of Rising Mains, end feed units & tap off etc completes with Accessories	30.00%		0.105%
B-2(e)	MV panels, /Floor panels, Metering panels			
1-B5-i	Supply of MV panels, /Floor panels, Metering panels	70.00%	0.15%	0.105%
1-B5-ii	Installation of MV panels, /Floor panels, Metering panels	30.00%		0.045%
B-2(f)	Light Fixtures, fans Exhaust fans and Aviation Light and accessories.			
1-B6-i	Supply of Light Fixtures, fans Exhaust fans and Aviation Light and accessories.	70.00%	0.60%	0.42%
1-B6-ii	Installation of Light Fixtures, fans Exhaust fans and Aviation Light and accessories.	30.00%		0.18%
B-3	L V SYSTEM			
B-3(a)	CCTV Surveillance System including cameras, switches, cables, conducting etc,			
B-3(a)-1	Slab conducting/ wall conducting for CCTV system	10.00%	0.60%	0.06%
B-3(a)-2	Wiring of CCTV system	30.00%		0.18%
B-3(a)-3	Supply of CCTV System	40.00%		0.24%
B-3(a)-4	Installation of CCTV System	20.00%		0.12%
B-3(b)	Fire Alarm System including conducting, all devices, panel, hooters, cables etc			
B-3(b)-1	Slab conducting/ wall conducting for FDS system	10.00%	0.50%	0.05%
B-3(b)-2	Wiring for FDA devices	30.00%		0.15%
B-3(b)-3	Supply of FDA system including, switches, patch cords etc	40.00%		0.20%
B-3(b)-4	Installation of FDA System complete	20.00%		0.10%
B-3(c)	Public Address system ncluding conducting, all devices, Speakers, amplifries cables etc			
B-3(c)-1	Slab conducting/ wall conducting	10.00%	0.15%	0.02%
B-3(c)-2	Wiring for PA system	30.00%		0.05%
B-3(c)-3	Supply of PA system	40.00%		0.06%
B-3(c)-4	Installation of PA System	20.00%		0.03%
B-3(d)	Audio Visual system completes with devices & accessories			
B-3(d)-1	Slab conducting/ wall conducting	10.00%	0.10%	0.01%
B-3(d)-2	Wiring for AV system	30.00%		0.03%
B-3(d)-3	Supply of AV system	40.00%		0.04%
B-3(d)-4	Installation of AV System	20.00%		0.02%
B-3(e)	Telephone/ IPBAX system completes with devices & accessories			
B-3(e)-1	Slab conducting/ wall conducting	10.00%	0.40%	0.04%
B-3(e)-2	wiring for IPBAX system	30.00%		0.12%
B-3(e)-3	Supply of IPBAX system including all software and all accessories to complete the commissioning the system	30.00%		0.12%
B-3(e)-4	Supply of Instruments	10.00%		0.04%
B-3(e)-5	Installation of IPBAX System	20.00%		0.08%
B-4	TV system			
B-4(a)	Slab conducting/ wall conducting	40.00%	0.02%	0.008%
B-4(b)	wiring for TV system/ GI boex and switch sokets and other necessary items for commisiiong the system	60.00%		0.012%
B-5	Nurse call bell system with devices & accessories			
B-5(a)	Slab conducting/ wall conducting	10.00%	0.50%	0.05%
B-5(b)	Wiring for NCS system	30.00%		0.15%
B-5(c)	Supply of NCS system including all software and all accessories to complete the commissioning the system	40.00%		0.20%
B-5(d)	Installation of NCS System	20.00%		0.10%
B-6	LIFT AND DUMB WAITER			
B-6(a)	Lifts & dumb waiter with all accesories for commissioning			

SI No	Description	Item %	Individual %	Cumm %
<b>2</b>	<b>Construction of 250 Bedded Cancer Hospital at Rajarshree Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis</b>	<b>Total Cost Component = 28% of CPT</b>		
B-6(a)-1	Supply of Lifts and Dumb waiter	60.00%	1.05%	0.63%
B-6(a)-2	Installation of Lifts and Dumb waiter for commissioning	40.00%		0.42%
<b>B-7</b>	<b>BMS</b>			
<b>B-7(a)</b>	<b>Building Management system with devices &amp; accessories</b>			
B-7(a)-1	Slab conduiting/ wall conduiting	10.00%	0.80%	0.08%
B-7(a)-2	wiring for BMS system	25.00%		0.20%
B-7(a)-3	Supply of BMS system including all software and all accessories to complete the commissioning the system	35.00%		0.28%
B-7(a)-4	Installation of BMS System	30.00%		0.24%
<b>B-8</b>	<b>External Electrical:</b>			
<b>B-8(a)</b>	<b>HT panels</b>			
B-8(a)-1	supply	70.00%	0.40%	0.28%
B-8(a)-2	Installation	30.00%		0.12%
<b>B-8(b)</b>	<b>Main LT Panels</b>			
B-8(b)-1	supply	70.00%	0.80%	0.56%
B-8(b)-2	Installation	30.00%		0.24%
<b>B-8(c)</b>	<b>APFC Panel</b>			
B-8(c)-1	supply	70.00%	0.40%	0.28%
B-8(c)-2	Installation	30.00%		0.12%
<b>B-8(d)</b>	<b>BUS DUCT</b>			
B-8(d)-1	supply	70.00%	0.40%	0.28%
B-8(d)-2	Installation	30.00%		0.12%
<b>B-8(e)</b>	<b>Transformer</b>			
B-8(e)-1	supply	70.00%	1.00%	0.70%
B-8(e)-2	Installation	30.00%		0.30%
<b>B-8(f)</b>	<b>DG-Set and synchronisation panel with control cabling &amp; other accessories to complete for commissioning the system</b>			
B-8(f)-1	supply	70.00%	1.20%	0.84%
B-8(f)-2	Installation	30.00%		0.36%
<b>B-8(g)</b>	<b>HT CABLES</b>			
B-8(g)-1	Supply of HT cables	70.00%	0.20%	0.14%
B-8(g)-2	Laying of HT Cabled	30.00%		0.06%
<b>B-8(h)</b>	<b>LT CABLES</b>			
B-8(h)-1	Supply of LT/ Control Cables cables	70.00%	0.80%	0.56%
B-8(h)-2	Laying of LT/ Control Cables	30.00%		0.24%
<b>B-8(i)</b>	<b>Earthing</b>			
B-8(i)-1	Supply	50.00%	0.20%	0.10%
B-8(i)-2	Installation	50.00%		0.10%
<b>B-8(j)</b>	<b>Solar Photovoltaic Power generation</b>			
B-8(j)-1	Supply	50.00%	0.50%	0.25%
B-8(j)-2	Installation	50.00%		0.25%
<b>B-8(k)</b>	<b>External Lighting</b>			
B-8(k)-1	supply	50.00%	0.15%	0.075%
B-8(k)-2	Installation	50.00%		0.075%
<b>B-8(l)</b>	<b>Safety Materials</b>			
B-8(l)-1	Supply	50.00%	0.02%	0.01%
B-8(l)-2	Installation	50.00%		0.01%
<b>B-8(m)</b>	<b>Boom barrier</b>			
B-8(m)-1	supply	70.00%	0.01%	0.007%
B-8(m)-2	Installation	30.00%		0.003%
<b>B-8(n)</b>	<b>UPS</b>			
B-8(n)-1	Supply of UPS	50.00%	0.40%	0.20%
B-8(n)-2	Installation of UPS	10.00%		0.04%
B-8(n)-3	Supply Battery of UPS	20.00%		0.08%
B-8(n)-4	Installation Battery of UPS	20.00%		0.08%
<b>B-8(o)</b>	<b>Fire Suppression system (Gas flooding System)</b>			
B-8(o)-1	Supply	60.00%	0.15%	0.09%
B-8(o)-2	Installation	40.00%		0.06%
<b>C</b>	<b>HVAC</b>		<b>10.00%</b>	<b>79.00%</b>
<b>C-1</b>	<b>On submission and approval of Good for construction Drawings &amp; Design Deliverables from HSCC</b>			
C-1(a)	Submission of Credential, Shop Drawings for HVAC works viz., SLD layout for Master plan, HVAC electrical system, Plant Room technical details, drawings for cooling tower, chillers, pumps etc, Ducting layout, drawings of HVAC Plant	60.00%	0.25%	0.15%
C-1(b)	Submission of technical datasheets for HVAC works viz., Plant Room equipment technical details, data sheet and drawings for cooling tower, chillers, pumps, AHU, HWG, Fans, etc, Low side & electrical technical data sheet etc.	40.00%		0.10%
<b>C-2</b>	<b>HVAC -Works</b>			
<b>C-2(a)</b>	<b>Highside Equipment</b>			

SI No	Description	Item %	Individual %	Cumm %
<b>2</b>	<b>Construction of 250 Bedded Cancer Hospital at Rajarshee Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis</b>	<b>Total Cost Component = 28% of CPT</b>		
C-2(a)-1	Supply of CHILLER	55.00%	2.50%	1.375%
C-2(a)-2	Installation of CHILLER	20.00%		0.500%
C-2(a)-3	SUPPLY OF PUMP	8.00%		0.200%
C-2(a)-4	INSTALLATION OF PUMP	5.00%		0.125%
C-2(a)-5	SUPPLY OF COOLING TOWER	5.00%		0.125%
C-2(a)-6	INSTALLATOION OF COOLING TOWER	3.00%		0.075%
C-2(a)-7	SUPPLY OF OTHER EQUIP Viz. Hot Water Generator	2.00%		0.050%
C-2(a)-8	INSTALLATION OF OTHER EQUIP Viz. Hot Water Generator	2.00%		0.050%
<b>C-2(b)</b>	<b>Low Side Equipment</b>			
C-2(b)-1	SUPPLY OF AHU+CSU	12.00%	6.25%	0.750%
C-2(b)-2	INSTALLATION OF AHU+CSU	5.00%		0.313%
C-2(b)-3	SUPPLY OF Ventilation Fans VIZ INLINE, AXIAL, CENTRIFUGAL, AIR WASHER, FAN SECTION ETC	6.50%		0.406%
C-2(b)-4	INSTALLATION OF OF Ventilation Fans	3.00%		0.188%
C-2(b)-5	SUPPLY OF OTHER EQUIP VIZ EXPENSION TANK	1.00%		0.063%
C-2(b)-6	INSTALLATION OF OTHER EQUIP VIZ EXPENSION TANK	0.50%		0.031%
C-2(b)-7	SUPPLY OF Piping & Fittings VIZ VALVES ETC	20.00%		1.250%
C-2(b)-8	INSTALLATION OF Piping & Fittings VIZ VALVES ETC	8.00%		0.500%
C-2(b)-9	SUPPLY OF Ducting	17.00%		1.063%
C-2(b)-10	INSTALLATION OF Ducting	7.00%		0.438%
C-2(b)-11	SUPPLY OF ADP	5.00%		0.313%
C-2(b)-12	INSTALLATION OF ADP	2.00%		0.125%
C-2(b)-13	SUPPLY OF Insulation	9.00%		0.563%
C-2(b)-14	INSTALLATION OF Insulation	4.00%		0.250%
<b>C-2(c)</b>	<b>HVAC Electrical works</b>			
C-2(c)-1	SUPPLY OF Panels VIZ Main HVAC, distribution , starter etc.	25.00%	1.00%	0.250%
C-2(c)-2	Installation OF Panels VIZ Main HVAC, distribution , starter etc.	10.00%		0.100%
C-2(c)-3	Supply of Cable	45.00%		0.450%
C-2(c)-4	Installation of of Cable	20.00%		0.200%
<b>D</b>	<b>IT Work</b>		<b>5.00%</b>	<b>84.00%</b>
D-1	IT & Special Services drawing & Design Deliverables viz.,submission of agency credentials, technical datasheets, shop	100.00%	0.25%	0.25%
<b>D-2</b>	<b>IT SERVICES (Execution)</b>			
<b>D-2(a)</b>	<b>HMIS including Tele-Medicine Software</b>			
D-2(a)-1	Against Preparation & Acceptance by Client	30.00%	0.70%	0.210%
D-2(a)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.280%
D-2(a)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.140%
D-2(a)-4	Handing over of the system to client.	5.00%		0.035%
D-2(a)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.035%
<b>D-2(b)</b>	<b>PACS Software</b>			
D-2(b)-1	Against Preparation & Acceptance by Client	30.00%	0.25%	0.075%
D-2(b)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.100%
D-2(b)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.050%
D-2(b)-4	Handing over of the system to client.	5.00%		0.013%
D-2(b)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.013%
<b>D-2(c)</b>	<b>PACS Hardware</b>			
D-2(c)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.60%	0.420%
D-2(c)-2	Installation and commissioning of the equipments.	20.00%		0.120%
D-2(c)-3	Handing over to client	5.00%		0.030%
D-2(c)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.030%
<b>D-2(d)</b>	<b>Server Hardware &amp; System Software</b>			
D-2(d)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.50%	0.350%
D-2(d)-2	Installation and commissioning of the equipments.	20.00%		0.100%
D-2(d)-3	Handing over to client	5.00%		0.025%
D-2(d)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.025%
<b>D-2(e)</b>	<b>Lan &amp; Wifi Components</b>			
D-2(e)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.95%	0.665%
D-2(e)-2	Installation and commissioning of the equipments.	20.00%		0.190%
D-2(e)-3	Handing over to client	5.00%		0.048%
D-2(e)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.048%
<b>D-2(f)</b>	<b>Computer Hardware including Tele-Medicine Hardware etc.</b>			
D-2(f)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.95%	0.665%
D-2(f)-2	Installation and commissioning of the equipments.	20.00%		0.190%
D-2(f)-3	Handing over to client	5.00%		0.048%
D-2(f)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.048%
<b>D-2(g)</b>	<b>QMS Hardware</b>			
D-2(g)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%	0.20%	0.140%
D-2(g)-2	Installation and commissioning of the equipments.	20.00%		0.040%
D-2(g)-3	Handing over to client	5.00%		0.010%
D-2(g)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.010%
<b>D-2(h)</b>	<b>QMS Software</b>			
D-2(h)-1	Against Preparation & Acceptance by Client	30.00%	0.10%	0.030%
D-2(h)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.040%
D-2(h)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.020%
D-2(h)-4	Handing over of the system to client.	5.00%		0.005%



SI No	Description	Item %	Individual %	Cumm %
2	Construction of <b>250 Bedded Cancer Hospital</b> at Rajarshree Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis	Total Cost Component = 28% of CPT		
D-2(h)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%		0.005%
D-2(i)	<b>Network &amp; Application Support Engineers</b>			
	1st year			
D-2(f)-1	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-2	Qtr 3+Qtr 4	50.00%		0.050%
	2nd Year			
D-2(f)-3	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-4	Qtr 3+Qtr 4	50.00%		0.050%
	3rd year			
D-2(f)-5	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-6	Qtr 3+Qtr 4	50.00%		0.050%
	4th year			
D-2(f)-7	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-8	Qtr 3+Qtr 4	50.00%		0.050%
	5th year			
D-2(f)-9	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-10	Qtr 3+Qtr 4	50.00%		0.050%
E	<b>SES</b>		<b>11.00%</b>	<b>95.00%</b>
E-1	<b>On submission and approval of Good for construction Drawings &amp; Design Deliverables from HSCC</b>			
	Submission of Credential , Shop Drawings & technical datasheets for specialized services viz. , Kitchen, CSSD, Laundry, PTS, Operation Theatres, MGPS etc.	100.00%	0.25%	0.25%
E-1	<b>Special Services*</b>			
E-1 (a)	Medical Gas Manifold System	29.00%	10.75%	3.1175%
E-1 (b)	Modular Operation Theatre	33.00%		3.5475%
E-1 (c)	Minor Operation Theatre	2.00%		0.2150%
E-1 (d)	CSSD	15.00%		1.6125%
E-1 (e)	Laundry	5.00%		0.5375%
E-1 (f)	Kitchen	3.00%		0.3225%
E-1 (g)	Pneumatic Tube Transfer System	13.00%		1.3975%
	*The stage payment of Special Services is further subdivided as: (a) 75% against supply & installation of equipment/items (b) 15% against testing & commissioning of special services and (c) 10% against demonstration & handing over of special services to Client.			
F	<b>Testing, Commissioning and Handover</b>		<b>5%</b>	<b>100%</b>
F-1	Testing and Commissioning	50%	5.0%	2.50%
F-2	Handover to the Client	50%		2.50%

SCHEDULE OF PAYMENTS - 250 BEDDED SUPER-SPECIALITY BLOCK				
SI No	Description	Item %	Individual %	Cumm %
3	Construction of 250 Bedded Super-speciality Hospital at Rajarshree Chattrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction	Total Cost Component = 27% of CPT		
A	Civil, plumbing & Firefighting works		54.00%	54.00%
A-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			
A-1 (a)	Civil Architectural ( Site Layout Plan with Building Coordinates, Submission of model, Building Plans, Sections and Elevations, Flooring Plans & Dado Details with sections and elevations, 3D Views for all locations such as Consultant room, lobby, ICU, Corridor, Toilet, OT, terrace garden etc and finishing schedule for all floors, Bunker, CT scan, MRI, Brachytherapy Room Details, Door and Window details, Road, parking, footpath layout and external development plans with sections, Plantation Layout mentioning species names, size and height, External Street Lighting layout plan with material schedule, External and internal signages details etc.), Structure drawings (Foundation drawings, Bunker/LINAC/Brachytherapy/Nuclear Medicine/Radiology structural details, Beam and slab reinforcement details, Road, trench, culvert, parking, RCC Drain, sewerage, effluent, storm water layout, Footpath Details, Underground tank details, STP and ETP details etc. ), PHE drawings (Building plumbing and sanitary details, Sewerage scheme and details, Drainage scheme and details, Water supply scheme and details, STP, ETP, R.O- Mechanical GA, HFD etc., Rain Water Harvesting, Underground tank and water treatment plant schematic details, Water Pumps technical details and data sheet etc.), flooring & finishing & signage works	100.00%	0.50%	0.50%
A-2	Upon receipt of Pre and post Local Body Clearances/Approvals/NOCs			
A-2(a)	Pre-Construction Approvals/Clearances viz., Technical Clearance from Town and Country Planning Department, Environmental Clearance (EIA), Pre construction Clearance from Fire Department, Consent to establish from Pollution Control Board, Labour License, NOC from Forest Department, Construction Permit/License from Village Panchayat, NOC from Health Department etc. Post-construction Approvals viz., Consent to operate including EC compliances from Pollution Control Board, Occupancy Certificate from Village Panchayat, Final Clearance/NOC from Fire Department, GRIHA Certification (Minimum 3 star), Clearance from Electrical Inspectorate & Lift Inspectorate etc.	100.00%	0.50%	0.50%
A-3	Construction: Civil Works			
A-3(a)	Foundation Work: On completion of foundation and substructure up to plinth level	9.00%	37.00%	3.33%
A-3(b)	Super Structure RCC Work of the entire building from ground floor to stair roof, overhead tank, mumty, LMR etc.	35.00%		12.95%
A-3(c)	Walls & Partition :Brickwork & partitioning work including brick work	6.00%		2.22%
A-3(d)	Doors & Windows i/c windows to meet Acoustical requirement.	6.00%		2.22%
A-3(e)	Flooring, skirting, dado, wall lining work, acoustic insulation, wall guard, tactile tile flooring etc.	18.00%		6.66%
A-3(f)	False Ceiling , terracing , water proofing etc.	8.00%		2.96%
A-3(g)	Finishing work :Internal & External Plaster & Painting	5.00%		1.85%
A-3(h)	External Structure Glazing, GRC Jali, External Cladding including framing and water-proofing etc	9.00%		3.33%
A-3(i)	SS/MS Railing (including epoxy painting) /Grills/domes etc	2.00%		0.74%
A-3(j)	Other Works:Signages (Internal & External), Internal Courtyard - Hard landscaping	2.00%		0.74%
A-4	Fire fighting System works (Execution)			
A-4(a)	Wet Riser System /Down Corner System	35.00%	4.00%	1.40%
A-4(b)	Automatic Sprinkler System	20.00%		0.80%
A-4(c)	Fire Extinguishers	10.00%		0.40%
A-4(d)	Fire Hydrant Installation as per DBR/Specification	25.00%		1.00%
A-4(e)	Fire sealing of the ducts and shafts	10.00%		0.40%
A-5	Execution of Internal PHE works including water supply and sewerage system including fittings and fixtures			
A-5(a)	Laying & Fixing of Internal water Supply & Sewerage Pipe Lines	35.00%	3.00%	1.05%
A-5(b)	Installation of Fitting & fixtures	65.00%		1.95%
A-6	External Development: Planning, Designing, and Construction on EPC Basis of External Development including various infrastructure required and as specified in the approved Master plan including Roads Street Lighting, Tree Plantation Horticulture, Landscaping etc. with support services & allied facilities by incorporating stipulated specifications, as per scope of work and directions of Engineer in Charge			
A-6(a)	Signage	20.00%	1.00%	0.20%
A-6(b)	Horticulture Operations including 30cm earth filling , grassing , tree plantations/shrubs and potted Plants etc.	80.00%		0.80%
A-7	External and Internal Roads , Footpaths & Parking : Base Preparation Formation Level, Compaction, GSB Laying & Compaction, Cocerete in Pavment, ExpansionJoint Treatment, Paver Block / CC Flooring in footpath, Footpath Railing, Kerbstone in Footpath & Road Dividers, Paver Block/ Concrete Flooring in Parking with Demarcation/ signages.			
A-7(a)	Formation Level, Compaction, GSB Laying & Compaction	15.00%	2.00%	0.30%
A-7(b)	Cocerete in Pavment, ExpansionJoint Treatment,	20.00%		0.40%
A-7(c)	Paver Block / CC Flooring in footpath, Footpath Railing, Kerbstone in Footpath & Road Dividers	15.00%		0.30%
A-7(d)	Paver Block/ Concrete Flooring in Parking with Demarcation/ signages.	20.00%		0.40%
A-8	External PHE works (Execution)			
A-8(a)	Underground Tank	12.00%	6.00%	0.72%
A-8(b)	Domestic Terrace Tank	9.00%		0.54%
A-8(c)	Fire Terrace Tank	1.00%		0.06%
A-8(d)	Solar Hot water System	2.00%		0.12%
A-8(e)	Sewage & Effluent Treatment Plant (STP & ETP)	14.00%		0.84%
A-8(f)	Borewell	1.00%		0.06%
A-8(g)	Hydropneumatic system/WTP/Softner/RO/water cooler	5.00%		0.30%
A-8(h)	Water curtain	1.00%		0.06%
A-8(i)	External Sewer & Drainage	9.00%		0.54%
A-8(j)	Filter Water Supply (Distribution Lines & Perpherial Grid )	10.00%		0.60%
A-8(k)	Unfiltered Water Supply Distribution Lines	11.00%		0.66%
A-8(l)	Storm Water Drainage pipelines	11.00%		0.66%
A-8(m)	Rain water harvesting	14.00%		0.84%
B	Electrical		15.00%	69.00%
B-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			
B-1(a)	Submission of Credential, Shop Drawings & technical datasheets for Electrical works viz., Electrical power and lighting layout plans, Transformer technical details and data sheet, Electrical Substation Layout and GA drawings and technical datasheets of all electrical panels such as HT,LT, MV and road lighting panels etc., GA drawings and technical data sheets of busduct , DG set and AMF panel, Earthing details Layout and lightning protection drawing, Cable schedule (Internal and external), External Street Lighting Layout, CCTV, telephone, Fire alarm system, PAS, Nurse call system, Access control, BMS Layout, Lift and dumb waiter Technical datasheets and drawings			

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3	<b>Construction of 250 Bedded Super-speciality Hospital at Rajarshree Chatrapati Shahu Maharaj Government Medical College at Kolhapur, Maharashtra on Comprehensive Design, Engineering, Procurement and Construction</b>	Total Cost Component = 27% of CPT		
B-1(b)	Submission and approval of shop drawings for conducting and wiring of electrical layout of lighting , power of all the	10.00%	0.30%	0.03%
B-1(c)	Submission and approval of shop drawings for conducting and wiring of electrical layout of LV works (i.e. CCTV,PA system, FDA, EPABX, access control IBMS, NCS, solar PV , external CCTV and PA etc.) of all the floors	20.00%		0.06%
B-1(d)	Submission and approval of shop drawings for electrical layout of sub station.	40.00%		0.12%
B-1(e)	Submission and approval of Technical data sheet of all electrical equipments.	30.00%		0.09%
B-2	<b>Internal Electrical works :</b>			
B-2(a)	<b>Slab conducting ,wall conducting, wiring (Point wiring , 5amp &amp; 15/20 amp ) , GI Boxes , switch plates and sockets and all other accessories</b>			
B-2(a)-1	supply and laying of Slab conducting ,& wall conducting (complete up to points)	30.00%	1.20%	0.36%
B-2(a)-2	supply and Fixing of GI Boxes & wiring of Points , 5Amp plug and 15 Amp points etc ,complete	40.00%		0.48%
B-2(a)-3	supply and Fixing of switch and sockets and terminations of wires	30.00%		0.36%
B-2(b)	<b>Distribution Boards and MCBs completes with Accessories</b>			
1-B2-i	supply of Distribution Boards with MCBs	60.00%	0.15%	0.090%
1-B2-ii	Installation with MCBs in DB all accessories with termination of all wires with ferruling	40.00%		0.060%
B-2(c)	<b>Submain ,conducting and submain wiring , cable tray raceway etc</b>			
1-B3-i	Supply of Submain ,conducting and submain wiring , cable tray raceway	50.00%	1.50%	0.75%
1-B3-ii	Installation / laying of Submain ,conducting and submain wiring , cable tray raceway	50.00%		0.75%
B-2(d)	<b>Rising Mains, end feed units &amp; tap off etc completes with accessories</b>			
1-B4-i	Supply of Rising Mains, end feed units & tap off etc completes with Accessories	70.00%	0.35%	0.245%
1-B4-ii	Installation of Rising Mains, end feed units & tap off etc completes with Accessories	30.00%		0.105%
B-2(e)	<b>MV panels, /Floor panels, Metering panels</b>			
1-B5-i	Supply of MV panels, /Floor panels, Metering panels	70.00%	0.15%	0.105%
1-B5-ii	Installation of MV panels, /Floor panels, Metering panels	30.00%		0.045%
B-2(f)	<b>Light Fixtures, fans Exhaust fans and Aviation Light and accessories .</b>			
1-B6-i	Supply of Light Fixtures, fans Exhaust fans and Aviation Light and accessories .	70.00%	0.60%	0.42%
1-B6-ii	Installation of Light Fixtures, fans Exhaust fans and Aviation Light and accessories .	30.00%		0.18%
B-3	<b>L V SYSTEM</b>			
B-3(a)	<b>CCTV Surveillance System including cameras, switches, cables, conduiting etc,</b>			
B-3(a)-1	Slab conduiting/ wall conduiting for CCTV system	10.00%	0.60%	0.06%
B-3(a)-2	Wiring of CCTV system	30.00%		0.18%
B-3(a)-3	Supply of CCTV System	40.00%		0.24%
B-3(a)-4	Installation of CCTV System	20.00%		0.12%
B-3(b)	<b>Fire Alarm System including conduiting ,all devices , panel, hooters , cables etc</b>			
B-3(b)-1	Slab conduiting/ wall conduiting for FDS system	10.00%	0.50%	0.05%
B-3(b)-2	Wiring for FDA devices	30.00%		0.15%
B-3(b)-3	Supply of FDA system including , switches, patch cords etc	40.00%		0.20%
B-3(b)-4	Installation of FDA System complete	20.00%		0.10%
B-3(c)	<b>Public Address system ncluding conduiting ,all devices, Speakers, amplifiries cables etc</b>			
B-3(c)-1	Slab conduiting/ wall conduiting	10.00%	0.15%	0.02%
B-3(c)-2	Wiring for PA system	30.00%		0.05%
B-3(c)-3	Supply of PA system	40.00%		0.06%
B-3(c)-4	Installation of PA System	20.00%		0.03%
B-3(d)	<b>Audio Visual system completes with devices &amp; accessories</b>			
B-3(d)-1	Slab conduiting/ wall conduiting	10.00%	0.10%	0.01%
B-3(d)-2	Wiring for AV system	30.00%		0.03%
B-3(d)-3	Supply of AV system	40.00%		0.04%
B-3(d)-4	Installation of AV System	20.00%		0.02%
B-3(e)	<b>Telepone/ IPBAX system completes with devices &amp; accessories</b>			
B-3(e)-1	Slab conduiting/ wall conduiting	10.00%	0.40%	0.04%
B-3(e)-2	wiring for IPBAX system	30.00%		0.12%
B-3(e)-3	Supply of IPBAX system including all software and all accessories to complete the commissioning the system	30.00%		0.12%
B-3(e)-4	Supply of Instruments	10.00%		0.04%
B-3(e)-5	Installation of IPBAX System	20.00%		0.08%
B-4	<b>TV system</b>			
B-4(a)	Slab conduiting/ wall conduiting	40.00%	0.02%	0.008%
B-4(b)	wiring for TV system/ GI boex and switch sokets and other necessary items for commisiiong the system	60.00%		0.012%
B-5	<b>Nurse call bell system with devices &amp; accessories</b>			
B-5(a)	Slab conduiting/ wall conduiting	10.00%	0.50%	0.05%
B-5(b)	Wiring for NCS system	30.00%		0.15%
B-5(c)	Supply of NCS system including all software and all accessories to complete the commissioning the system	40.00%		0.20%
B-5(d)	Installation of NCS System	20.00%		0.10%
B-6	<b>LIFT AND DUMB WAITER</b>			
B-6(a)	<b>Lifts &amp; dumb waiter with all accesories for commissioning</b>			
B-6(a)-1	Supply of Lifts and Dumb waiter	60.00%	1.05%	0.63%
B-6(a)-2	Installation of Lifts and Dumb waiter for commissioning	40.00%		0.42%
B-7	<b>BMS</b>			
B-7(a)	<b>Building Management system with devices &amp; accessories</b>			
B-7(a)-1	Slab conduiting/ wall conduiting	10.00%	0.80%	0.08%
B-7(a)-2	wiring for BMS system	25.00%		0.20%
B-7(a)-3	Supply of BMS system including all software and all accessories to complete the commissioning the system	35.00%		0.28%

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B-7(a)-4	Installation of BMS System	30.00%		0.24%
<b>B-8</b>	<b>External Electrical:</b>			
<b>B-8(a)</b>	<b>HT panels</b>			
B-8(a)-1	supply	70.00%	0.40%	0.28%
B-8(a)-2	Installation	30.00%		0.12%
<b>B-8(b)</b>	<b>Main LT Panels</b>			
B-8(b)-1	supply	70.00%	0.80%	0.56%
B-8(b)-2	Installation	30.00%		0.24%
<b>B-8(c)</b>	<b>APFC Panel</b>			
B-8(c)-1	supply	70.00%	0.40%	0.28%
B-8(c)-2	Installation	30.00%		0.12%
<b>B-8(d)</b>	<b>BUS DUCT</b>			
B-8(d)-1	supply	70.00%	0.40%	0.28%
B-8(d)-2	Installation	30.00%		0.12%
<b>B-8(e)</b>	<b>Transformer</b>			
B-8(e)-1	supply	70.00%	1.00%	0.70%
B-8(e)-2	Installation	30.00%		0.30%
<b>B-8(f)</b>	<b>DG-Set and synchronisation panel with control cabling &amp; other accessories to complete for commissioning the system</b>			
B-8(f)-1	supply	70.00%	1.20%	0.84%
B-8(f)-2	Installation	30.00%		0.36%
<b>B-8(g)</b>	<b>HT CABLES</b>			
B-8(g)-1	Supply of HT cables	70.00%	0.20%	0.14%
B-8(g)-2	Laying of HT Cabled	30.00%		0.06%
<b>B-8(h)</b>	<b>LT CABLES</b>			
B-8(h)-1	Supply of LT/ Control Cables cables	70.00%	0.80%	0.56%
B-8(h)-2	Laying of LT/ Control Cables	30.00%		0.24%
<b>B-8(i)</b>	<b>Earthing</b>			
B-8(i)-1	Supply	50.00%	0.20%	0.10%
B-8(i)-2	Installation	50.00%		0.10%
<b>B-8(j)</b>	<b>Solar Photovoltaic Power generation</b>			
B-8(j)-1	Supply	50.00%	0.50%	0.25%
B-8(j)-2	Installation	50.00%		0.25%
<b>B-8(k)</b>	<b>External Lighting</b>			
B-8(k)-1	supply	50.00%	0.15%	0.075%
B-8(k)-2	Installation	50.00%		0.075%
<b>B-8(l)</b>	<b>Safety Materials</b>			
B-8(l)-1	Supply	50.00%	0.02%	0.01%
B-8(l)-2	Installation	50.00%		0.01%
<b>B-8(m)</b>	<b>Boom barrier</b>			
B-8(m)-1	supply	70.00%	0.01%	0.007%
B-8(m)-2	Installation	30.00%		0.003%
<b>B-8(n)</b>	<b>UPS</b>			
B-8(n)-1	Supply of UPS	50.00%	0.40%	0.20%
B-8(n)-2	Installation of UPS	10.00%		0.04%
B-8(n)-3	Supply Battery of UPS	20.00%		0.08%
B-8(n)-4	Installation Battery of UPS	20.00%		0.08%
<b>B-8(o)</b>	<b>Fire Suppression system (Gas flooding System)</b>			
B-8(o)-1	Supply	60.00%	0.15%	0.09%
B-8(o)-2	Installation	40.00%		0.06%
<b>C</b>	<b>HVAC</b>		<b>10.00%</b>	<b>79.00%</b>
<b>C-1</b>	<b>On submission and approval of Good for construction Drawings &amp; Design Deliverables from HSCC</b>			
C-1(a)	Submission of Credential, Shop Drawings for HVAC works viz., SLD layout for Master plan, HVAC electrical system, Plant Room technical details, drawings for cooling tower, chillers, pumps etc, Ducting layout, drawings of HVAC Plant Room	60.00%	0.25%	0.15%
C-1(b)	Submission of technical datasheets for HVAC works viz., Plant Room equipment technical details, data sheet and drawings for cooling tower, chillers, pumps, AHU, HWG, Fans, etc, Low side & electrical technical data sheet etc.	40.00%		0.10%
<b>C-2</b>	<b>HVAC -Works</b>			
<b>C-2(a)</b>	<b>Highside Equipment</b>			
C-2(a)-1	Supply of CHILLER	55.00%	2.50%	1.375%
C-2(a)-2	Installation of CHILLER	20.00%		0.500%
C-2(a)-3	SUPPLY OF PUMP	8.00%		0.200%
C-2(a)-4	INSTALLATION OF PUMP	5.00%		0.125%
C-2(a)-5	SUPPLY OF COOLING TOWER	5.00%		0.125%
C-2(a)-6	INSTALLATION OF COOLING TOWER	3.00%		0.075%
C-2(a)-7	SUPPLY OF OTHER EQUIP Viz. Hot Water Generator	2.00%		0.050%
C-2(a)-8	INSTALLATION OF OTHER EQUIP Viz. Hot Water Generator	2.00%		0.050%
<b>C-2(b)</b>	<b>Low Side Equipment</b>			

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C-2(b)-1	SUPPLY OF AHU+CSU	12.00%	6.25%	0.750%
C-2(b)-2	INSTALLATION OF AHU+CSU	5.00%		0.313%
C-2(b)-3	SUPPLY OF Ventilation Fans VIZ INLINE, AXIAL, CENTRIFUGAL, AIR WASHER, FAN SECTION ETC	6.50%		0.406%
C-2(b)-4	INSTALLATION OF OF Ventilation Fans	3.00%		0.188%
C-2(b)-5	SUPPLY OF OTHER EQUIP VIZ EXPENSION TANK	1.00%		0.063%
C-2(b)-6	INSTALLATION OF OTHER EQUIP VIZ EXPENSION TANK	0.50%		0.031%
C-2(b)-7	SUPPLY OF Piping & Fittings VIZ VALVES ETC	20.00%		1.250%
C-2(b)-8	INSTALLATION OF Piping & Fittings VIZ VALVES ETC	8.00%		0.500%
C-2(b)-9	SUPPLY OF Ducting	17.00%		1.063%
C-2(b)-10	INSTALLATION OF Ducting	7.00%		0.438%
C-2(b)-11	SUPPLY OF ADP	5.00%		0.313%
C-2(b)-12	INSTALLATION OF ADP	2.00%		0.125%
C-2(b)-13	SUPPLY OF Insulation	9.00%		0.563%
C-2(b)-14	INSTALLATION OF Insulation	4.00%		0.250%
C-2(c)	<b>HVAC Electrical works</b>		1.00%	
C-2(c)-1	SUPPLY OF Panels VIZ Main HVAC, distribution , starter etc.	25.00%		0.250%
C-2(c)-2	Installation OF Panels VIZ Main HVAC, distribution , starter etc.	10.00%		0.100%
C-2(c)-3	Supply of Cable	45.00%		0.450%
C-2(c)-4	Installation of of Cable	20.00%	0.200%	
D	<b>IT Work</b>		<b>5.00%</b>	<b>84.00%</b>
D-1	IT & Special Services drawing & Design Deliverables viz., submission of agency credentials, technical datasheets, shop	100.00%	0.25%	0.25%
D-2	<b>IT SERVICES (Execution)</b>			
D-2(a)	<b>HMIS including Tele-Medicine Software</b>		0.70%	
D-2(a)-1	Against Preparation & Acceptance by Client	30.00%		0.210%
D-2(a)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.280%
D-2(a)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.140%
D-2(a)-4	Handing over of the system to client.	5.00%		0.035%
D-2(a)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.035%	
D-2(b)	<b>PACS Software</b>		0.25%	
D-2(b)-1	Against Preparation & Acceptance by Client	30.00%		0.075%
D-2(b)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.100%
D-2(b)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.050%
D-2(b)-4	Handing over of the system to client.	5.00%		0.013%
D-2(b)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.013%	
D-2(c)	<b>PACS Hardware</b>		0.60%	
D-2(c)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%		0.420%
D-2(c)-2	Installation and commissioning of the equipments.	20.00%		0.120%
D-2(c)-3	Handing over to client	5.00%		0.030%
D-2(c)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.030%	
D-2(d)	<b>Server Hardware &amp; System Software</b>		0.50%	
D-2(d)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%		0.350%
D-2(d)-2	Installation and commissioning of the equipments.	20.00%		0.100%
D-2(d)-3	Handing over to client	5.00%		0.025%
D-2(d)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.025%	
D-2(e)	<b>Lan &amp; Wifi Components</b>		0.95%	
D-2(e)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%		0.665%
D-2(e)-2	Installation and commissioning of the equipments.	20.00%		0.190%
D-2(e)-3	Handing over to client	5.00%		0.048%
D-2(e)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.048%	
D-2(f)	<b>Computer Hardware including Tele-Medicine Hardware etc.</b>		0.95%	
D-2(f)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%		0.665%
D-2(f)-2	Installation and commissioning of the equipments.	20.00%		0.190%
D-2(f)-3	Handing over to client	5.00%		0.048%
D-2(f)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.048%	
D-2(g)	<b>QMS Hardware</b>		0.20%	
D-2(g)-1	Delivery of the equipments at site subject to submission of inspection report.	70.00%		0.140%
D-2(g)-2	Installation and commissioning of the equipments.	20.00%		0.040%
D-2(g)-3	Handing over to client	5.00%		0.010%
D-2(g)-4	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.010%	
D-2(h)	<b>QMS Software</b>		0.10%	
D-2(h)-1	Against Preparation & Acceptance by Client	30.00%		0.030%
D-2(h)-2	Implementation and acceptance of Application Software (User Acceptance Testing).	40.00%		0.040%
D-2(h)-3	Completion of Training, Final Acceptance Test (FAT) and Go Live.	20.00%		0.020%
D-2(h)-4	Handing over of the system to client.	5.00%		0.005%
D-2(h)-5	Successful completion of 5 years onsite OEM warranty & maintenance support.	5.00%	0.005%	
D-2(i)	<b>Network &amp; Application Support Engineers</b>			
	<b>1st year</b>			
D-2(f)-1	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-2	Qtr 3+Qtr 4	50.00%		0.050%
	<b>2nd Year</b>			
D-2(f)-3	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-4	Qtr 3+Qtr 4	50.00%		0.050%
	<b>3rd year</b>			
D-2(f)-5	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%

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D-2(f)-6	Qtr 3+Qtr 4 4th year	50.00%		0.050%
D-2(f)-7	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-8	Qtr 3+Qtr 4 5th year	50.00%		0.050%
D-2(f)-9	Qtr 1+ Qtr 2	50.00%	0.10%	0.050%
D-2(f)-10	Qtr 3+Qtr 4	50.00%		0.050%
E	SES		11.00%	95.00%
E-1	On submission and approval of Good for construction Drawings & Design Deliverables from HSCC			
	Submission of Credential , Shop Drawings & technical datasheets for specialized services viz. , Kitchen, CSSD, Laundry, PTS, Operation Theatres, MGPS etc.	100.00%	0.25%	0.25%
E-1	Special Services*			
E-1 (a)	Medical Gas Manifold System	29.00%	10.75%	3.1175%
E-1 (b)	Modular Operation Theatre	33.00%		3.5475%
E-1 (c)	Minor Operation Theatre	2.00%		0.2150%
E-1 (d)	CSSD	15.00%		1.6125%
E-1 (e)	Laundry	5.00%		0.5375%
E-1 (f)	Kitchen	3.00%		0.3225%
E-1 (g)	Pneumatic Tube Transfer System	13.00%		1.3975%
	*The stage payment of Special Services is further subdivided as: (a) 75% against supply & installation of equipment/items (b) 15% against testing & commissioning of special services and (c) 10% against demonstration & handing over of special services to Client.			
F	Testing, Commissioning and Handover		5%	100%
F-1	Testing and Commissioning	50%	5.0%	2.50%
F-2	Handover to the Client	50%		2.50%