

HSCC (INDIA) LIMITED
(A Subsidiary of NBCC (India) Limited)
(A GOVERNMENT OF INDIA ENTERPRISE)

Dated: 19.02.2020

AMENDMENT No.– VIII

Project Name: Tender for “Construction of Hospital, Academic Block, Residential Campus and Allied Buildings, etc. and their Maintenance during Defect Liability Period on Comprehensive Design, Engineering, Procurement and Construction (EPC) basis for AIIMS, Rajkot”

Tender No. HSCC/AIIMS/Rajkot/EPC/2020 dated 17.01.2020

This has reference to subject work, the bidders may note the following Amendments/Addition/Clarifications, which shall be treated as a part of the contract and should be uploaded along with tender/ bid:

- A. The following amended/addition/clarifications in “Scope of Work & Design Basis Report (DBR)/ Technical Specifications/ Approved Make List” are as given below.

| Sr. No. | Document Reference | Clause, Page Reference | Description as per tender/Amendment | Amendment/ Addition / Clarification |
|--------------------------|---|---|---|---|
| <u>Electrical Works:</u> | | | | |
| 1. | Scope of work & DBR – <u>Electrical Works</u> | Electrical & ELV services S. No. 2.8, Page No. 47 | Guest House lifts detail s. No.-6 – Nil | <u>Additional Provision:</u> Provision for installation of 2 no. lifts shall be made in Guest House building. However only one no. 8 Passenger lift with 1.0 MPS speed is to be installed as part of this contract. |
| 2. | Scope of work & DBR – <u>Electrical Works</u> | Electrical & ELV services S. No. 2.7.7, Page No. 37 | | <u>Additional Provision:</u> Digital mortise lock with proximity card reader, mechanical keys, pin no. with battery backup, proximity cards, complete as required is to be provided in Guest Rooms/Suite in the Guest House. |

| Sr. No. | Document Reference | Clause, Page Reference | Description as per tender/Amendment | Amendment/ Addition / Clarification |
|--------------------|---|--|--|---|
| 3. | Scope of work & DBR – <u>Electrical Works</u> | Electrical & ELV services S. No. 2.7.6, CCTV system, Page no.-35 | | <u>Additional Provision:</u> The CCTV and surveillance system shall also be provided to cover outdoor areas including complete boundary wall, Roads and controls for all external coverage from security room in the main gate. |
| <u>HVAC Works:</u> | | | | |
| 4. | Scope of work & DBR – <u>HAVC Works</u> | HVAC & BMS DBR - Clause No. 1.3.1(A) | | <u>Shall be read as below:</u> A) Building connected with common centralized water cooled chilled water plant. i) Teaching Hospital: Fully airconditioned. ii) Academic Block: Fully airconditioned. iii) Ayush Block: Fully airconditioned. iv) Mortuary: Fully airconditioned. v) Auditorium: Fully airconditioned. |
| <u>IT Works :</u> | | | | |
| 5. | Scope of work & DBR – <u>IT Works</u> | Page No. 2, Clause no. 2, Scope of Work under Design Basis Report (DBR) of IT Infrastructure for AIIMS Rajkot | | <u>Following Addition in the existing scope:</u> Entire Campus is to be wi-fi enabled |
| 6. | Scope of work & DBR – <u>IT Works</u> | Page No. 2, Clause no. 2 (c), Scope of Work under Design Basis Report (DBR) of IT Infrastructure for AIIMS Rajkot | Establishment of Server Room/Data Centre as per the requirement | Establishment of Server Room/Data Centre as per the requirement and technical specifications of IT Infrastructure mentioned at Sr. No. 16. |
| 7. | Scope of work & DBR – <u>IT Works</u> | Page No. 3, Clause no. 3, Scale of Amenities under Design Basis Report (DBR) of IT Infrastructure for AIIMS Rajkot | Table under The building wise following details are in scope of EPC Contractor: - For A. Ayush, B. Hospital & E. Academic Blocks. | Revised table for following Blocks for description of data points is enclosed at Annexure I . A. Ayush, B. Hospital E. Academic Blocks The provision for other blocks remains unchanged. |

| Sr. No. | Document Reference | Clause, Page Reference | Description as per tender/Amendment | Amendment/ Addition / Clarification |
|---------|---------------------------------------|--|--|---|
| 8. | Scope of work & DBR – <u>IT Works</u> | Page No. 5, Clause no. 3 C, Scale of Amenities under Design Basis Report (DBR) of IT Infrastructure for AIIMS Rajkot (Hostels) | Hostels | <u>Shall be read as follows:</u> Hostels, Guest House and Director Bungalow |
| 9. | Scope of work & DBR – <u>IT Works</u> | Page No. 5, Clause no. 3 C, Scale of Amenities under Design Basis Report (DBR) of IT Infrastructure for AIIMS Rajkot (Hostels, Guest House and Director Bungalow), Sr. No. 1 | | <u>Following Addition in the existing scope:</u> Director Bungalow – LAN Points – 2 Nos. Wi-Fi Points 100% coverage |
| 10. | Scope of work & DBR – <u>IT Works</u> | Page No. 19, Part 1 – General Sr No. 2 | Name of patients should be displayed in the TVs and LCD display units outside consultant rooms and individual registration/reception counters & helpdesk etc. | <u>Shall be read as follows:</u> Name of patients should be displayed in the 32” LED TVs outside consultant rooms and individual registration/ reception counters & helpdesk etc. in all the floors. |
| 11. | Scope of work & DBR – <u>IT Works</u> | Page No. 20, Part 1 – General Sr. No. 7 | The agency/SI will prepare the QMS design, bill of material, patient flow, floor-wise & room-wise TV points, token dispensers (min. 10 nos.), kiosks (min 5-8 nos.), display units, calling pads & other details. Special provisions should be made in the services areas like Laboratories, Radiology, Pharmacies, Registration, consultant rooms etc., both for new as well as follow-up patients and with appointment & without appointment patients. The QMS design should be robust and proposed LED/TVs should be able to cater all the patients in the waiting areas, consultant rooms & other services mentioned previously. | <u>Shall be read as follows:</u> The agency/SI will prepare the QMS design, bill of material, patient flow, floor-wise & room-wise TV points, token dispensers (min. 10 nos.), kiosks (min 5-8 nos.), display units, calling pads & other details. Special provisions should be made in the services areas like Laboratories, Radiology, Pharmacies, Registration, consultant rooms etc., both for new as well as follow-up patients and with appointment & without appointment patients. The QMS design should be robust and proposed 55” LED TVs should be able to cater all the patients in the waiting areas, consultant rooms & other services mentioned previously. |
| 12. | Scope of work & DBR – <u>IT Works</u> | Page No. 24, Sr. No. 9 | LED QUEUE DISPLAY (32”/43” Smart Android LED 4K Signage in Registration/Reception Counters & 24” outside Consultant rooms, | <u>Shall be read as follows:</u> 32” Smart Android LED TV in Registration/Reception Counters & outside Consultant rooms, pharmacy |

| Sr. No. | Document Reference | Clause, Page Reference | Description as per tender/Amendment | Amendment/ Addition / Clarification |
|---------------------------------------|--|--|---|--|
| | | | pharmacy counters, diagnosis rooms i.e. sample collection counters, x-ray, CT, MRI, US etc.) LED Queue display shall be installed at registration counter to display latest token number counter wise. | counters, diagnosis rooms i.e. sample collection counters, x-ray, CT, MRI, US etc.). 32'' LED TV Queue display shall be installed at registration counter to display latest token number counter wise. |
| 13. | Scope of work & DBR – <u>IT Works</u> | | | <u>Following Addition in the existing scope:</u> For deployment of Internet Gateway Connectivity for the AIIMS Rajkot Campus, the Router, Switch etc. shall be provided as per the requirement of the ISP. |
| <u>Specialized Services:</u> | | | | |
| 14. | 'Amended Technical Specifications for MGPS & MOT Works' uploaded vide Amendment No. VI | 19A Double arm moveable Pendant for Anaesthetist | m) Shelf of Pendant should be made of High quality Bio- Clean Material. | Deleted |
| | | 19 B DOUBLE ARM MOVEABLE PENDANT FOR SURGEON | m) Shelf of Pendant should be made of High quality Bio- Clean Material. | Deleted |
| 15. | Scope of work & DBR – <u>Specialised Works</u> | Modular OT & Minor OT | | There shall be 20 nos. Modular OTs and 3 nos. Minor OTs. |
| 16. | Technical Specifications | Technical specification of Minor OT | | Technical specification of Minor OT is enclosed at Annexure – II. |
| <u>PHE & Fire Fighting Works:</u> | | | | |
| 17. | DBR- Plumbing and Fire fighting works | 4.0 Sewerage System of Plumbing work | Pipes used for Sewerage disposal system shall be of RCC NP2 and NP3 class pipes with S&S joints conforming to (IS 458) from building 1st Manhole to sewerage treatment plant inlet chamber. | Pipes used for Sewerage disposal system shall be of RCC NP2 and NP3 class pipes with S&S joints conforming to (IS 458) / Double Wall Corrugated pipes conforming to (IS 16098-2) with integral socket and EPDM sealing ring jointing, from building 1st Manhole to sewerage treatment plant inlet chamber. |

| Sr. No. | Document Reference | Clause, Page Reference | Description as per tender/Amendment | Amendment/ Addition / Clarification |
|---------------------|--|--|---|---|
| 18. | DBR- Plumbing and Fire fighting works | 5.0 Storm Water Drainage & Rain Water Harvesting System | The rainwater from the terraces, open surface areas, as per design, shall be collected in the clay brick masonry chambers with RCC NP-2 and NP-3 pipes, collection chambers and shall be ultimately connected to the main storm-water drainage system. The network of storm water system shall be mostly catch basins and RCC pipe network, as per requirements. | The rainwater from the terraces, open surface areas, as per design, shall be collected in the clay brick masonry chambers with RCC NP-2 and NP-3 pipes / PVC pipes, collection chambers and shall be ultimately connected to the main storm-water drainage system. The network of storm water system shall be mostly catch basins and pipe network, as per requirements. |
| 19. | DBR- Plumbing and Fire fighting works | 6.0 Irrigation system for lawns and gardens | Gardens and lawns shall be irrigated in combination of Garden Hydrant System and Sprinkler Irrigation System. | Gardens and lawns shall be irrigated in combination of Garden Hydrant System, Sprinkler Irrigation System and Drip Irrigation System. |
| 20. | Approved Make list | PHE and Fire Works | ----- | Double wall Corrugated pipe shall be of make Supreme, Prince or equivalent as approved by Engineer-in-charge. |
| <u>Civil Works:</u> | | | | |
| 21. | Approved Make list | Civil Works : Fabricator for SS Railing , Wall Guard, Corners etc. | | AKSISCO/ as approved by engineer. |

B. The HSCC reply to pre-bid queries of Electrical works at S.No.192 uploaded vide amendment no.1 are amended as given below:

| <u>Reply As per Amendment No.1</u> | <u>Amended Reply</u> |
|--|--|
| <u>S.No. 192 :</u> Shall be GIS type as per CPWD/NBC/IS/ state electricity rules & fire safety rules of substation. | <u>S.No. 192 :</u> 66KV/11KV Grid substation shall be air insulated as per State Electricity Board regulations. |

C. The bidders may note that certain provision of DBR (Architecture) / Detailed Project Report (Architecture) of “Scope of Work and Design Basis Report” have been amended / clarified as per details given at **Annexure –III**.

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

Prospective bidders are advised to regularly scan through HSCC e-tender portal <http://www.tenderwizard.com/HSCC> & 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.

(- Sd -)
DGM (Projects),
HSCC (India) Ltd.

| Floor wise Detailing, Ayush Block, AIIMS Rajkot | | | | | |
|---|---|------------------|-------------|----------------------------|-----------------------|
| Sr. No. | Room Description | No of Rooms | Data Points | Data Point for QMS Display | Data Point Waiting TV |
| Ground Floor | | | | | |
| 1 | Multi Purpose Hall(Conference/Meeting/Training) | 1 | 2 | | |
| 2 | HOD Room | 1 | 2 | | |
| 3 | Records Room | 1 | 1 | | |
| 4 | Admin/Accountants Office | 1(seating for 4) | 4 | | |
| 5 | Mesdicine Store | 1 | 1 | | |
| 6 | Pharmacy | 4 counters0 | 4 | 4 | |
| 7 | Waiting Area (infront of pharmacy) | 1 | | | 2 |
| 8 | Consultant Room | 8 | 8 | 8 | |
| 9 | Registration Desk | 4 counters0 | 4 | 4 | |
| 10 | Waiting Area(infront of Consultant Rooms) | 1 | | | 6 |
| 11 | Sample Collection | 1 | 2 | 2 | |
| 12 | General Store | 1 | 1 | | |
| 13 | IT Server Room | 1 | 5 | | |
| | Total | | 34 | 18 | 8 |
| First Floor | | | | | |
| 1 | Store | 1 | 1 | | |
| 2 | Staff Room | 1 | 2 | | |
| 3 | Consultant Room | 1 | 1 | | |
| 4 | Reception(Ayurveda) | 1 | 1 | | |
| 5 | Reception(ward Area) | seating for 2 | 2 | | |
| 6 | Nurse Station | seating for 3 | 3 | | |
| 7 | Dispencing Room | 1 | 1 | | |
| 8 | Nurses Room | 1 | 1 | | |
| 9 | Doctor's Room | 1 | 1 | | |
| | TOTAL | | 13 | 0 | 0 |
| Grand Total | | | 47 | 18 | 8 |

Floor wise detailing, Hospital Block, AIIMS Rajkot

| Sr. No. | Room Description | No of Rooms | Data Points | Data Point for QMS Display | Data Point Waiting TV |
|---------------------|---------------------------|-------------|-------------|----------------------------|-----------------------|
| Ground Floor | | | | | |
| 1 | Lab | 5 | 15 | | |
| 2 | Lab | 1 | 5 | | |
| 3 | CSSD | 2 | 2 | | |
| 4 | Drug Store | 1 | 1 | | |
| 5 | Staff Lounge | 4 | 4 | | |
| 6 | Store | 1 | 1 | | |
| 7 | MRD | 1 | 2 | | |
| 8 | Central Stores | 1 | 2 | | |
| 9 | Electrical Panel Room | 1 | 2 | | |
| 10 | Associate Professor | 4 | 4 | | |
| 11 | HOD | 1 | 1 | | |
| 12 | Deptt. Office | 1 | 4 | | |
| 13 | Demo Room | 3 | 3 | | |
| 14 | Jr resident | 4 | 4 | | |
| 15 | Sr. resident | 2 | 2 | | |
| 16 | Fluoroscopy | 1 | 1 | | |
| 17 | X-ray | 4 | 4 | | |
| 18 | Ultrasound | 2 | 2 | | |
| 19 | TV Room | 1 | 1 | | |
| 20 | Mammography | 1 | 1 | | |
| 21 | Reporting Room | 1 | 1 | | |
| 22 | Report collection counter | 1 | 2 | | |
| 23 | CT Scan | 1 | 1 | | |
| 24 | MRI Scan | 1 | 1 | | |
| 25 | Console | 1 | 2 | | |
| 26 | Equipment | 1 | 1 | | |
| 27 | Reception | 1 | 2 | | |
| 28 | Record Room | 1 | 1 | | |
| 29 | Public Waiting | 1 | | | 1 |
| 30 | Occupancy therapy | 1 | 1 | | |
| 31 | Help Desk | 2 | 4 | | |
| 32 | Consultants Room | 31 | 31 | 31 | |
| 33 | Records | 7 | 7 | | |
| 34 | Waiting | | | | 4 |
| 35 | Registration | 1 | 3 | 3 | |
| 36 | Police port | 1 | 1 | | |
| 37 | CCMO Room | 1 | 1 | | |
| 38 | Nurses Room | 1 | 1 | | |
| 39 | Minor OT | 2 | 4 | | |
| 40 | Nurse Station | 1 | 2 | | |

| | | | | | |
|---------------------|--------------------------------|----|------------|-----------|-----------|
| 41 | Drug Store | 1 | 1 | | |
| 42 | OT | 2 | 6 | | |
| 43 | Command control centre | 1 | 2 | | |
| | TOTAL | | 136 | 34 | 5 |
| First Floor | | | | | |
| 1 | Consultant Room | 52 | 52 | 52 | |
| 2 | Record Room | 9 | 9 | | |
| 3 | Demo Room | 2 | 2 | | |
| 4 | Doctors Duty Room | 6 | 6 | | |
| 5 | Nurses Duty Room | 1 | 1 | | |
| 6 | Procedure Room | 1 | 1 | | |
| 7 | Anesthesia | 2 | 2 | | |
| 8 | Drug Store | 2 | 2 | | |
| 9 | Ultra Sound | 2 | 2 | | |
| 10 | OT | 2 | 6 | | |
| 11 | Preparation Area | 1 | 1 | | |
| 12 | Nurse Station(Pre Labour Ward) | 2 | 8 | | |
| 13 | Observation Beds | 16 | 16 | | |
| 14 | CATH Lab Ward | 1 | 4 | | |
| 15 | Cath Labs | 2 | 4 | | |
| 16 | Nurse Station(ICU) | 1 | 4 | | |
| 17 | Nurse Station(ICCUC) | 1 | 4 | | |
| 19 | Treatment Room | 1 | 1 | | |
| 20 | Staff Lounge | 2 | 2 | | |
| 21 | NS(Recovery Ward) | 1 | 4 | | |
| 22 | Pharmacy | 1 | 8 | 8 | |
| 23 | Waiting Area | | | | 30 |
| | TOTAL | | 139 | 60 | 30 |
| SECOND FLOOR | | | | | |
| 1 | Assistant Professor | 6 | 6 | | |
| 2 | Sr Resident | 3 | 3 | | |
| 3 | HOD Room | 3 | 6 | | |
| 4 | jr Resident | 3 | 3 | | |
| 5 | Serology Lab | 1 | 4 | | |
| 6 | NS(Ward) | 1 | 2 | | |
| 7 | Endoscopy | 4 | 4 | | |
| 8 | Consultation Room | 2 | 2 | 2 | |
| 9 | SICU(NS) | 1 | 8 | | |
| 10 | Treatment Room | 1 | 1 | | |
| 11 | Duty Doctor | 3 | 3 | | |
| 12 | Nurses Lounge | 1 | 1 | | |
| 13 | Durg Store | 1 | 1 | | |
| 14 | OT | 16 | 48 | | |
| 15 | Lounge | 7 | 7 | | |
| 16 | Lecture Theatre | 1 | 2 | | |
| 17 | Blood Bank | 1 | 1 | | |

| | | | | | |
|---------------------|-----------------------------|----|------------|----------|----------|
| 18 | TTD Lab | 1 | 2 | | |
| 19 | Quality Control | 1 | 2 | | |
| 20 | Dept Office | 2 | 10 | | |
| 21 | Public Waiting | 1 | 4 | | |
| 22 | NS(Post Op) | 1 | 5 | | |
| 22 | NS(Pre Op) | 1 | 6 | | |
| | TOTAL | | 131 | 2 | 0 |
| Third Floor | | | | | |
| 1 | DNS | 2 | 2 | | |
| 2 | ANS | 2 | 2 | | |
| 3 | Medical Superintendent Room | 1 | 3 | | |
| 4 | Meeting Room | 1 | 2 | | |
| 5 | Vice Principal | 1 | 3 | | |
| 6 | Confidential Room | 1 | 1 | | |
| 7 | Board Room | 1 | 10 | | |
| 8 | Duty Doctor | 2 | 2 | | |
| 9 | Nurse Station | 1 | 48 | | |
| 10 | Office Area | 1 | 39 | | |
| 11 | Room | 1 | 1 | | |
| 12 | Nurses Lounge | 4 | 4 | | |
| 13 | Doc duty | 3 | 3 | | |
| 14 | Waiting Area | 1 | 4 | | |
| 15 | Treatment Room | 1 | 1 | | |
| | TOTAL | | 125 | 0 | 0 |
| FOURTH FLOOR | | | | | |
| 1 | Dept Office | 5 | 25 | | |
| 2 | Sr Resident | 6 | 6 | | |
| 3 | jr Resident | 5 | 5 | | |
| 4 | HOD Room | 6 | 12 | | |
| 5 | Asst Professor | 12 | 12 | | |
| 6 | Duty Doctor | 8 | 8 | | |
| 7 | NS | 16 | 64 | | |
| 8 | Treatment Room | 8 | 8 | | |
| 9 | Public Waiting | 1 | 4 | | |
| | TOTAL | | 144 | 0 | 0 |
| Fifth Floor | | | | | |
| 1 | Dept Office | 5 | 25 | | |
| 2 | Sr Resident | 6 | 6 | | |
| 3 | jr Resident | 5 | 5 | | |
| 4 | HOD Room | 6 | 12 | | |
| 5 | Asst Professor | 12 | 12 | | |
| 6 | Duty Doctor | 8 | 8 | | |
| 7 | NS | 16 | 64 | | |
| 8 | Treatment Room | 8 | 8 | | |
| 9 | Public Waiting | 1 | 4 | | |
| | TOTAL | | 144 | 0 | 0 |

| | | | |
|--------------------|------------|------------|-----------|
| Grand Total | 819 | 96 | 35 |
| | | 950 | |

Floor wise detailing, Academic Block, AIIMS Rajkot

| Sr. No. | Room Description | No of Rooms | Data Points |
|---------------------|-------------------------------|---------------|-------------|
| Ground Floor | | | |
| 1 | Lecture Theatre | 1 | 2 |
| 2 | Demo Room | 2 | 2 |
| 3 | Dept Office | Seating for 8 | 8 |
| 4 | Professor | 1 | 1 |
| 5 | Asso Prof | 2 | 2 |
| 6 | Sr Residents | 6 workstation | 6 |
| 7 | Seminar Room | 1 | 2 |
| 8 | Research Lab | 1 | 3 |
| 9 | Anatomy Museum | 1 | 1 |
| 10 | Common Room(Boys) | 1 | 1 |
| 11 | Common Room(Girls) | 1 | 1 |
| 12 | Histology Lab | 1 | 4 |
| 13 | Security Cabin | 1 | 1 |
| 14 | Reception(Entrance Lobby) | 1 | 1 |
| 15 | Faculty Lounge | 2 | 2 |
| | | | 37 |
| First Floor | | | |
| 1 | Lecture Theatre | 1 | 2 |
| 2 | Demo Room | 1 | 1 |
| 3 | Dept Office | 1 | 8 |
| 4 | Professor | 1 | 1 |
| 5 | Associate Professor | 2 | 2 |
| 6 | Sr Residents | seating for 6 | 6 |
| 7 | Seminar Room | 1 | 2 |
| 8 | Research Laboratory | 1 | 3 |
| 9 | Technician | 1 | 1 |
| 10 | Central Research Lab | 54 seating | 54 |
| 11 | Amphibian Laboratory | 1 | 3 |
| 12 | Lab | 1 | 3 |
| 13 | Preparation Room | 4 | 4 |
| 14 | Human/Clinical Physiology Lab | 1 | 2 |
| 15 | Central Photographic Section | 1 | 2 |
| 16 | Hematology Lab | 1 | 3 |
| 17 | Records Room | 1 | 1 |
| 18 | Dean | 4 | 8 |
| 19 | Office | 30 Seating | 30 |
| 20 | Examination Control Office | 7 seating | 7 |
| 21 | cabins | 6 | 6 |
| 22 | Director | 1 | 2 |
| 23 | PA | 1 | 1 |

| | | | |
|---------------------|-------------------------------------|----------------------------|------------|
| 24 | Board Room | 1 | 4 |
| 25 | Dep Director | 1 | 2 |
| 26 | PA | 1 | 1 |
| 27 | Registrar | 1 | 2 |
| 28 | PA | 1 | 1 |
| 29 | Office | 12 seating | 12 |
| 30 | Board Room | 1 | 4 |
| 31 | Vice Principal | 1 | 2 |
| 32 | Principal | 1 | 2 |
| 33 | PA | 1 | 1 |
| | TOTAL | | 183 |
| SECOND FLOOR | | | |
| 1 | Lecture Theatre | 1 | 2 |
| 2 | Demo Room | 2 | 2 |
| 3 | Professor | 1 | 1 |
| 4 | Asst Professor | 4 | 4 |
| 5 | Dept Office | 1 | 8 |
| 6 | Sr Resident | Seating for 6 | 6 |
| 7 | Seminar Room | 1 | 2 |
| 8 | Research Lab | 1 | 3 |
| 9 | Technician | 1 | 1 |
| 10 | Biochemistry | 1 | 4 |
| 11 | Community Medicine Lab | 1 | 3 |
| 12 | Preparation | 3 | 3 |
| 13 | Epidemiologist | 1 | 2 |
| 14 | Seminar Library | 1 | 2 |
| 15 | Research Lab | 1 | 3 |
| 17 | Museum | 1 | 1 |
| 18 | Nursing Foundation Lab | 1 | 2 |
| 19 | Tutors Room | 1 | 1 |
| 20 | Multi Purpose Hall(Nursing College) | 1 | 4 |
| 21 | Common Room(f) | 1 | 1 |
| 22 | Professor | 3 | 6 |
| 23 | Asso Professor | 5 | 5 |
| 25 | Staff Room | 1 | 2 |
| 26 | Dept Office | 4 seating | 4 |
| 27 | Non Teaching Staff | 4 seating | 2 |
| 28 | Tutor/Demonstration | 7 seating | 7 |
| | TOTAL | | 81 |
| Third Floor | | | |
| 1 | Lecture Theatre | 1 | 2 |
| 2 | Officer room | 1 | 2 |
| 3 | Dept Office | 2(8 seating,seating for 4) | 12 |
| 4 | Asso Professor | 4 | 4 |
| 5 | Sr Resident | 6 seating | 6 |
| 6 | Seminar Room | 1 | 2 |

| | | | |
|---------------------|-------------------------------|----------------|------------|
| 7 | Demo Room | 4 | 4 |
| 8 | Research Lab | 2 | 6 |
| 9 | Technician | 1 | 1 |
| 10 | Forensic Medicine Lab | 1 | 4 |
| 11 | Micro Biology Lab | 1 | 3 |
| 12 | Preparation Room | 1 | 1 |
| 13 | Parasitology Lab | 1 | 2 |
| 14 | Bacteriology room | 1 | 2 |
| 15 | Tuberculosis | 1 | 2 |
| 16 | Mycology room | 1 | 2 |
| 17 | Virology room | 1 | 2 |
| 18 | Immunology room | 1 | 2 |
| 19 | Serology lab | 1 | 2 |
| 20 | Seminar Library | 1 | 2 |
| 21 | Media Preparation | 1 | 1 |
| 22 | Museum | 2 | 2 |
| 23 | Non Teaching Staff | seating for 4 | 4 |
| 24 | Tutor/Demonstration | Seating for 7 | 7 |
| 25 | Assistant Prof | 1 | 1 |
| 26 | Professor | 1 | 1 |
| 27 | Reading Hall | 1 | 4 |
| 28 | Computer Room | Seating for 26 | 26 |
| 29 | Server Room. | 1 | 2 |
| 30 | Audio Visual Room | 1 | 1 |
| 31 | Office Room | 1 | 8 |
| 32 | Librarian Room | 1 | 1 |
| 33 | Issue Counter | 3 counters | 3 |
| 34 | OBG& Pediatrics | 1 | 2 |
| 35 | Preclinical Science Lab | 1 | 3 |
| 36 | Common Room | 1 | 1 |
| | TOTAL | | 130 |
| FOURTH FLOOR | | | |
| 1 | Pharmacology Lab | 1 | 3 |
| 2 | Preparation | 2 | 2 |
| 3 | Dept Office | Seating for 12 | 12 |
| 4 | Professor | 2 | 2 |
| 5 | Asst Professor | 3 | 3 |
| 6 | Sr Resident | Seating for 6 | 6 |
| 7 | Seminar Room | 1 | 2 |
| 8 | Research Lab | 2 | 4 |
| 9 | Technician | 1 | 1 |
| 10 | Experimental Pharmacology Lab | 1 | 3 |
| 11 | Morbid Anatomy Lab | 1 | 3 |
| 12 | Preparation | 1 | 1 |
| 13 | Histo Pathology lab | 1 | 2 |
| 14 | Cyto Pathology lab | 1 | 2 |

| | | | |
|----|-------------------------|---------------|------------|
| 15 | Hemaetology lab | 1 | 2 |
| 16 | Configure Room | 1 | 1 |
| 17 | Demo Room | 3 | 3 |
| 18 | Museum | 2 | 2 |
| 19 | Library Nursing College | 1 | 4 |
| 20 | Seminar Library | 1 | 2 |
| 21 | Nutrition Lab | 1 | 2 |
| 22 | CHN Lab | 1 | 3 |
| 23 | Non Teaching Staff | Seating for 4 | 2 |
| 24 | Tutor/Demonstrator | Seating for 7 | 7 |
| 25 | Asso Professor | 2 | 2 |
| 26 | Staff Reading Area | 1 | 2 |
| 27 | Reading Hall | 1 | 10 |
| 28 | HOD | 2 | 4 |
| | TOTAL | | 92 |
| | Grand Total | | 523 |

TECHNICAL SPECIFICATION FOR MINOR OT

SCOPE OF WORK -

Plan, Design, Supply construction, and commissioning of Operating Theatre (Minor) in accordance with the specifications, bill of quantities and providing of free spare parts and service during Defect Liability Period.

1. CEILING CONSTRUCTION

The prefabricated construction for 1.60 mm thick AISI-304 Stainless Steel backed by 12mm thick Gypsum board OR it should be Double skinned panel of 0.8mm thick 304 Grade Stainless Steel sheet each. The double skinned panel shall be sandwiched with core consisting of rigid polyurethane foam, which has been injected under high pressure, with a minimum density of 40 kg/m³. with Silicon sealant to provide seamless operating room. The individual wall panels shall use the tongue and groove technology for joining two panels, no welding should be allowed.

The ceiling suspension from concrete ceiling should be as:

Suspension elements : Suspension bracket with tension spring

Suspension Height: Continuously adjustable from 250 to 1100 mm

Stability: Permanent and non-stop after adjustment.

Material High quality galvanized steel

Diffusers for supply of conditioned air from AHU and return air should be provided at the Ceiling panel.

Providing and laying Epoxy/Antibacterial painting of 300 microns thickness over smoothly rendered surface. The treatment consists of surface preparation, priming with Primer.

2. CORNER COVING

Extruded Aluminium powder coated/Anodized clip on type coverings for the entire wall to wall and wall to ceiling. R-70, 3D internal/ external corner coves. Covering and coving of Return air ducting lines inside OT. Material to be used for covering should be Powder coated Aluminium/SS-304.

3. WALL PAINTING

Providing and laying Epoxy/Antibacterial painting of 300 microns thickness over smoothly rendered walls. The treatment consists of surface preparation, priming with Epoxy Primer. Walls should be smoothly rendered with Wall putty.

4. DOUBLE LEAF DOOR- BOTH WAY OPENING- Size-2100 x 1500mm

44 mm thick doors made with 0.8mm thick double skinned SS-304 sheets on both sides with PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, door closure, double glazed view glass of std size, hinges and provision for concealed automatic door bottom Drop seal etc. Supply & Installation of double glazed view panels (1 Square ft. area) with flush design, with 6mm thick float glass fixed in double panel with necessary arrangements. Colour of the door should be as per the requirement of the client.

5. PERIPHERAL LIGHT

It should be fitted outside the air ceiling system area and flush with the ceiling in the operation theatre suitable to required illumination of OT. Peripheral lights and clean room luminaries fitted in the frame should be 8 Nos/As suitable to the required illumination (500 Lux) in numbers for each OT. The LED lamp of size 2ft.x 1ft with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution. Luminaries cover made of highly resistant, disinfectant proof laminated safety glass with fine grained surface, glass pane with white powder coated steel frame. Luminary's body made of sheet steel, white, powder coated supplied ready for connection. The reflectors should be of high quality, cleanable and non deteriorating. Dimmable ballasts of reputed companies to be used and diffuser should be constructed with opaque acrylic diffuser material in aluminum frames/ SS frames. It should have flicker less design with color. Recess frames should be gas tight. The fitting should be flush with the ceiling and should be removable from top or bottom. Lighting units should be properly sealed with the ceiling by means of fillers and beadings so that all lighting units are airtight with ceiling panels. The light fitting should be uniformly and aesthetically distributed on the ceiling to provide uniform illumination in the OR. Peripheral lighting should be done according to IP 65 protocol. Light should not interfere when green mode of Endoscopy is performed.

6. DISTRIBUTION BOARD, ELECTRICAL WIRING, CONDUITING WITH FIXTURES INSIDE THE OPERATION THEATRE

Electrical Distribution Board along with all high voltage equipment should be installed in a separate enclosure. Transformers, Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet.

All electrical wiring should be terminated to the connectors mounted on rail and labeled with indelible labels. Individual fuse and miniature circuit breakers should protect all

internal circuits. Complete schematic diagram drawing description should be enclosed with the equipment.

Laying of PVC conduits, Modular Switch Boxes, Modular Switches-sockets, Power and Light wiring including Earthing wire for all the lighting controls, Pendant and other equipment fixtures and fittings inside the theatre Wiring with low leakage current wires of FRLS wires should be as per requirements. 5/15 Amps **antibacterial switch** and socket outlet set -3 Nos shall be flushed equidistant in each wall at 325mm height from FFL of OT. Wiring for 250 volts single phase and neutral 5/15 Amps switched socket outlet with 4 sq.mm and 2.5 sq.mm PVC insulated copper conductor 1100 volts stranded flexible wires should be concealed with conduit. Installation of all electrical cabling must be of IS: 1554 (As per latest amendment) standard and wiring as per IS: 732 standard and proper earthing of OT and other accessories in the OT room as per standard guidelines of BIS. Fittings should be sealed on accordance with the standard IP54. Earthed equipotent bonding of all exposed metal work should be provided.

7. OPERATION THEATRE FLOORING (ANTISTATIC CONDUCTIVE ROLL)

The Operation theatre floor finish should be laid with 2 mm antistatic seamless conductive PVC Roll on a semi-conductive adhesive base. The floor should be scratch resistant, fire resistant, chemical resistant, non-corrosive, slip resistant, smooth, anti fungi, antimicrobial impervious material conductive enough to dissipate static electricity but not conductive enough to endanger personnel from electric shock. The joints in the flooring should be sealed by using a PVC welding bar of matching colour and hot air gun for fusion of welding bar with flooring to provide a continuous sealed surface. The conductive material should be uniformly impregnated as grains. The floor should be inert to body fluids, chemicals, detergents and disinfectants and it should not be affected by temperature variation within the OT. Colour should be uniform, pleasant and matching with ambience and should be approved by client/HSCC. **The floor finish should pass over a concealed cove former and continue up the wall for 100mm.** The floor should be provided flat to within a tolerance of ± 3 mm over any 30 Sq.mtr area. Copper grounding strip (0.05 thick, 50 mm width) should be laid flat on the floor in the conductive adhesive and connect to copper wire of grounding. The connection from copper grid should be brought out uniformly at places to form equi-potential grid. A self-leveling compound should be laid prior to laying of the floor finish. One earthing lead should be brought out of from every 150 Sq.ft. area and attaching it to main earthing strip/ground. The floor should have electrical resistance(Point to ground) within 2.5×10 to 2.5×10^6 Ohms as per NFPA-99/ DIN 51953/ATMF-150 B1 class of fire resistance. The floor should efficiently discharge electric charges upto 2 KV. The floor should not allow building up of electrical charge beyond 100 volts due to antistatic effect. It should fulfill product requirements as per EN649. The corner should not be terminated sharply and concealed cove-former (Aluminum) upto 100mm from FFL and should be used overlap to a height of 25mm approx.and sealed perfectly and uniformly. Self-leveling compounds should be used for this purpose. Radius for corner coving- 60-70R

8. INTERNAL DUCTING

The internal ducting in the Operating theatre should be done as per ISI-655 duly fabricated out of 22 swg Aluminum sheet complete with flanges and accessories such as GI suspenders and GI supports completely sealed with Silicon sealant duly insulated with Aluminum foil and (XLPE)Polyethylene/Nitrile Rubber selfadhesive type insulation. The type of insulation and its thickness should be such that there is no sweating.

9. MEDICAL GAS PIPE LINE INSTALLATION

Oxygen, Air(Medical & Surgical), Vacuum, Nitrous Oxide and AGSS supply to Operation Theatres from the existing manifold system should be provided. The medical gas alarm system shall be installed which fully satisfies the principles of HTM 2022/NFPA.

Medical graded Copper pipes shall be solid drawn, tempered, seamless, phosphorous deoxidized, non-arsenic and degreased for oxygen service. Copper to Copper joints shall be made on site using silver-copper-phosphorous brazing alloy to BS-1845. Copper to brass or gunmetal joints shall not be made on site. Except for mechanical joints used for components, all metallic pipeline joints shall be brazed or welded. All pipelines shall be routed in such a way that their not exposed to a temperature less than 5 deg Celsius above the dew point of the gas distribution pressure. The chemical composition shall be as per BS-6017: 1981 Table 2, Cu-DHP grade. Distribution Copper Pipe manufactured as per BSEN:13348:2008 Each pipe shall be capped at both ends before supply. Pipeline shall be supported at interval to prevent sagging.

The supply of pipes shall accompany with manufacturers test certificates for physical properties and chemical composition. The supply of pipes shall be further substantiated with inspection certificates from third party inspectors like LLOYDS/SGS/TUV.

Medical graded Copper Piping should be laid down from Pendant/Bed Head Panel/Gas Outlets of OT to the nearby Valve Box outside the Operation Theatre via Surgeon Control Panel. Following Gas outlets to be provided in each Minor OT:

Oxygen-4 nos, Vacuum-4 Nos, Nitrous-1 No., MA4-1 No., SA7-1 No., AGSS-1 No. as per NFPA/HTM02-01 guideline

10. SCRUB STATION

Compact Surgical Scrub sink -2 Bay should be designed for use in Operation theatre complex providing surgeons with a convenient sink for pre-OT scrub up. The Scrub Sink should be made of 1.5mm thick AISI-304 Stainless Steel and top surface(Counter) should be made of one piece and polished to seamless. The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled

valve, waste connections, stoppers and strainers. Hands free operation should include infra-red sensors with built-in range of adjustment. Thermostatic mixing, valve control should be located behind the access panel and maintain constant water temperature. User defined time 1, 3,5,10 min. are available. This timing should be adjustable to meet individual application requirements, provided with infrared sensors, thermostatic control taps with fail-safe temperature controls. All units should have reduced anti splash front. It should have manual foot and operation mode. Knee operated switch should be provided additionally. The station should also have inbuilt soap dispensers. Scrub station should be equipped with 10L Geysers for supply of hot water.

11. X-RAY FILM VIEWER

The Two (2) plate viewing LED type/ high frequency fluorescent lamps X-Ray Viewing Screen should be designed to provide flicker free luminance for clear film viewing. Each plate should be able to illuminate films up to 14"x17" size. 'Dimming is controlled using dimming ballast and PCB mounted inside the box. The mounting of the Screen should be installed flushed with Operation theatre wall to avoid dust accumulation and microbial growth and ease of cleaning. The diffuser should diffuse the light evenly and to provide adequate luminance for film viewing. Body should be of extruded aluminum powder coated black with bacteria and disinfectant resistant finish. Proper spring loaded film clip with rollers should be provided to hold the films firmly and to remove the film without scratches. The X-Ray Film viewer should comply with relevant Electrical Safety Codes for High and Low voltage system.

12. OT LIGHT

Description: Dual Dome **LED** Surgical Lighting System

i) OT Light

Operating Room Surgical Lighting System should provide an ideal combination of brightness, Maneuverability, and shadow resolution without sacrificing color accuracy through a consistent LED technology with a unique faceted reflector design technology.

Such Lighting System should have the following technical specifications:

- Number of Light heads : : Two per suspension
- Number of LEDs : Should be adequate enough for following minimum illumination level
- Color Temperature : 3800 - 5000 K($\pm 10\%$) - Variable colour temperature.
-

- Field Size Diameter : 20 to 28cm (+/- 10%)
- Depth of Field : 750 to 1100mm (+/- 10%)
- Illumination Level : minimum 160,000 Lux each
- Controls : Wall Control Touch Panel
- Rotation : 330- 360 degrees
- Vertical Adjustment Range : + 20 inch – 25 inch
- Sterilizable Handle : 2 Nos
- Light head Diameter : 30-35/800mm×720mm of size
- Mounting Type : Ceiling
- Supply Voltage : 230 VAC 50 Hz
- Bulb Type : LED
- Dimming Range : 30% - 80%
- Operating/Storage Humidity : 10 – 95%
- Life of Light Source : > 40,000 Hrs.
- European CE /US FDA/BIS certified

The following supercedes the respective provision in the Detailed Project Report (Architecture) of “Scope of Work and Design Basis Report”:

The words “**Detailed Project Report (Architecture)**” are synonymous with “**Design Basis Report (Architecture)**” and have the same meaning.

The contents of “INTERNAL FINISHING SCHEDULE – HOSPITAL AND AYUSH BLOCK (ANNEXURE – 1)” in the DBR are replaced by the contents given below:

| LEGEND | WALLS / COLUMNS | CEILING | FLOORING | SKIRTING | BROAD APPLICATION AREA |
|--------|---|--|--|--|--|
| | WALL - Italian Marble (80%) + Vitrified Tile (20%) COLUMN - Italian Marble (50%) + Lacquered Glass with SS Strip (30%) + Wooden Paneling (20%) | Metallic (25%) + Mineral fiber (40%) + Gypsum (20%) + Calcium Silicate (10%) + Baffle (5%) | Granite (50%) + Epoxy Terrazzo (30%) + Italian Marble (20%) + | As per Flooring, Dado on wall -1300 mm (+/- 100 mm) including 100 granite Band, Dado on Column- Full Height | Entrance Lobby |
| | Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band,)+Plastic Emulsion Paint | Metallic (40%) + Mineral fiber (40%) + Gypsum (10%) + Baffle (10%) | Granite (80%) + Marble white/ green (10%) + Vitrified tile (10%) | Dado as mentioned in wall finishes | Corridors including Niches, Offsets, connecting areas of corridors upto stairs, entrance etc. Except clean corridor. For Clean Corridor refer clean room finishes. |
| | Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band) + Plastic Emulsion Paint | Fair faced concrete Finish (80%) + False Ceiling (20%), Fire Pipe shall be encased with false ceiling | Granite (80%) + Marble White/ green (20%), Flamed / Polished Granite below porch, Mosaic Heavy Duty Chequered Tiles at Hospital Ramp with 65 mm dia S.S. 304 grade pipe at two level with S.S. Support system. | As per wall finishes | Entrance/ Ramp/ Hospital Ramp/ Connecting Corridors at Ground Floor |

| | | | | | |
|--|---|---|--|---|--|
| | <ul style="list-style-type: none"> OT/ Clean rooms - refer Clean room finishes/ OT Specifications. Lab- Vitrified Tile above & under counter up to 1800 mm High + Plastic Emulsion paint. Other area - 1300 mm (+/- 100 mm) vitrified tile Dado including 100 granite Band, + PU wall Paint Coating <p>Wall dado has Vitrified Tile (80 %) + Granite (10%) + PU paint (10%) Above dado area - Epoxy (20%) + PU Paint (80%)</p> | Powder Coated Anti-Bacterial Metal (80%) + Gypsum Bio Guard (20%) | Dissipative Antistatic PVC Flooring (80%) + Granite (10%) + Anti-Static Epoxy (10%) OT/ Clean rooms- refer Clean room finishes / OT Specifications. Labs- Vitrified Tile | OT/ Clean rooms - refer Clean room finishes / OT Specifications. Lab- 1800 mm high Vitrified tile Dado with Granite Band | ICU, OT, Radiology, Radiotherapy, Emergency, Labs, Labour Complex, Cath Labs |
| | <p>2100 mm high Vitrified Tile in dado + Plastic Emulsion Paint over POP in Kitchen, Laundry</p> <p>CSSD Clean Area- Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 Granite Band,)+ Epoxy Paint</p> <p>CSSD Sterile Area- Epoxy,</p> <p>Store & MRD-Plastic Emulsion Paint over POP</p> | Metallic (50%) + Gypsum (20%) + Mineral fiber (30%) | Trimix Concrete (70%)+ Kota (10%) + Vitrified Tiles (10%) CSSD Clean Area- Vitrified Tile, CSSD Sterile Area- Epoxy | As per Flooring & Wall finishes | Kitchen, C.S.S.D., Laundry, MRD, Central Stores |
| | Vitrified Tile (70%) + Wooden paneling (20%) + Plastic Emulsion Paint over POP (10%) | Metallic (40%) + Mineral fiber (40%) + Gypsum (10%) + Wooden (5%) + Baffle (5%) | Vitrified Tile (80%) + Granite (10%)+ PVC (10%) | As per flooring, Dado on wall -1300 mm (+/- 100 mm) including 100 granite Band | Consultations Rooms, Demo Rooms, Lounges, Treatment Rooms/ Procedure Room, Office areas, Faculty Rooms |
| | Plastic Emulsion Paint over POP | Metallic (10%) + Mineral fiber (80%) + Plastic emulsion paint (10%) | IPS Flooring with Hardeners + Epoxy Paint | As per flooring | A.H.U., Stores, Pantry and Service Areas |
| | Vitrified Tile (80%) + Granite (20%) | Calcium Silicate (90%) + Perforated Metallic (10%) | Vitrified Tile (80%) + Granite (20%) | Vitrified Tile/ Granite upto False Ceiling | Attached Toilets |
| | Vitrified Dado (80%) + Granite Dado (20%) + Plastic Emulsion Paint with POP over dado + 65 mm Dia Guard Rail SS Brush Finish | Plastic Emulsion Paint over POP | Tread/ Riser- 20 mm thick Granite in single piece with Nosing & Grooves on Tread | Dado-1300 mm (+/- 100 mm) including 100 granite Band) | Staircases |

| | | | | | |
|--|--|--|--|--|---|
| | External Texture Paint | | Grading & Water proofing as per specification, Heat reflecting surface treatment as per GRIHA | As per flooring | Terrace |
| | | | Courtyards / Green Terrace shall be suitably sunk to receive good earth for plantation. This sunken area should have designed drainage and drip irrigation system including water proofing with warranty as per tender condition | | Courtyards / Green Terrace |
| | Wooden acoustical paneling (70%) + Fabric/ Gypsum (20%) +Acoustical Mineral fiber (10%) | Wooden acoustical Paneling (70%) + Gypsum (10%) + Acoustical Mineral fiber (10%) + Baffles (10%) | Granite (20%) + Engineered Wooden (80%) | Dado full height as marked in wall finishes | Lecture Theatre |
| | Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band) + Plastic Emulsion Paint, Granite Slab Top in partition i.e. 1300 mm (+/- 100 mm) between the wards. | Gypsum (20%) + Mineral fiber (70%) + PVC Laminated Mineral fiber (10%) | Vitrified Tile + Granite Band | Vitrified Tile / Granite Band | General Wards |
| | Vitrified Tile (40%) + Granite (20%) + Italian (20%) + Plastic emulsion Paint with POP (20%) | Gypsum (20%) + Mineral fiber (70%) + PVC Laminated Mineral fiber (10%) | Granite (80%) + Italian Marble (20%) | Dado at Ward-1300 mm (+/- 100 mm) including 100 granite Band, Dado at Toilet- Full Height up to False Ceiling | Private Wards including attached Toilet |
| | Granite (80%) + Italian Marble (10%) + Wooden (10%) | Gypsum (20 %) + Mineral fiber (80%) + Metallic (10%) | Granite (80%) + Italian (20%) | As per wall & floor finishes | Public Waiting |
| | Wooden paneling (50%) + Lacquered Glass (10%) + Italian (10%) + Granite (10%) + Vitrified Tile (10%) + Plastic Emulsion Paint over POP (10%) | Metallic (40%) + Mineral fiber (30%) + Gypsum (20%) + Wooden (5%) + Baffle (5%) | Wooden (10%) + Granite (50%) + Italian (10%) + Carpet (10%) + Marble (10%) + Vitrified Tile (10%) | As per flooring, Dado on wall -1300 mm (+/- 100 mm) including 100 granite Band | Admin Area |

| | | | | | |
|--|---|--|-------------------------------------|-------------------------------|------------|
| | <ul style="list-style-type: none"> Lift Fascia Wall - 1500 mm Italian Marble Cladding + SS Jamb on Lift Doors + Lacquered Glass up to False Ceiling + Display Panel / TV flushed in Lacquered Glass (Refer Indicative View) Lift Other Walls - Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band,) + Plastic Emulsion Paint with POP | Gypsum (10%) + Mineral fiber (80%)+ Baffle (10%) | Granite (95%) + Epoxy Terrazzo (5%) | As mentioned in wall finishes | Lift Lobby |
| Note:- | | | | | |
| 1. All Public Toilets will have Laminated Board Partition System with Acrylic Solid Surface (Corian or equivalent) counter with monolithic basin + Granite Flooring+ Granite/ Lacquered Glass Cladding on walls + Calcium Silicate Ceiling (refer indicative view) | | | | | |
| 2. All Urinals will have Frosted Toughened Glass partitions. | | | | | |
| 3. All Attached toilet Counters to be in granite finish and as per approved view | | | | | |
| 4. All Railings to be in Stainless Steel. | | | | | |
| 5. Terraces on Intermediate Levels and above Porches will have Terrace Gardens/ Courtyards / Green Terrace shall be suitably sunk to receive good earth for plantation. This sunken area should have designed drainage and drip irrigation system including water proofing with warranty as per tender condition | | | | | |
| 6. Tact Tiles to be installed in every corridor leading upto the Ramps, Staircases & Lift Lobbies | | | | | |
| 7. All tiles will be laid with spacers on wall and floors and filled with Epoxy Grouting | | | | | |
| 8. In Faculty area rooms wall towards the corridor will have glass / Aluminium partition system with frame as per specs. | | | | | |
| 9. LED TV/ Display Screen in Lift Lobby will be flushed with the Lacquered Glass, above 1500 mm high granite/ Italian Marble Cladding.(lacquered Glass with 12/16 mm SS Strip in Horizontal Joints) refer indicative view. | | | | | |
| 10. For OT Finishes, Door, Window- Refer Technical Specification & Details of Modular OT. | | | | | |
| 11. For Kitchen, Laundry, CSSD, Gas Manifold, Mortuary- Refer finishes of Specialized Services also. | | | | | |
| 12. Lift Floor Operating Panel to be Flushed with SS Jamb refer indicative view. | | | | | |
| 13. Clean Area i.e. OT Complex, ICU, Pre. OP., Post O.P., Bone Marrow, Cath Lab etc. finishes to be followed as per clean room. Dissipative Antistatic PVC Flooring in OT Complex, ICU, Pre-OP, Post OP, HDU, Chemotherapy Area, Stem Cell Therapy Area.) | | | | | |
| 14. All window sill & Jamb shall have Granite stone finish from inside & External Stone finish from outside. | | | | | |
| 15. Aluminium reinforced PVC wall guard to be provided in all Trolley / Stretcher movement area. | | | | | |
| 16. Finishes of Equipment Rooms of Radiology & Radio therapy shall be done as per equipment supplier specifications | | | | | |
| 17. Hospital & AYUSH Building Height to be considered: Ground floor, First floor & Second floor - 4500mm, Basement - 5000 mm, Floor above second floor - 4200 mm | | | | | |
| 18. All finishing items with any combination(s) and pattern(s) will be decided by Engineer-In-Charge with 100% variation of any item/ Materials/ Shade/ colour. | | | | | |
| 19. Sizes upto 1200x1200 mm Tiles, Stones, False Ceilings, Aluminium Items, Trolley Guards, Water Proofing and any other items at any locations will be decided by Engineer-In-Charge. | | | | | |
| 20. Presentation(s) and Artistic Views shall be presented for decision of materials, Finishes and Colors etc. for Internal and External Finishes of the building(s). | | | | | |
| 21. Over all quantity of the above finishing items shall be calculated and balanced unused costly items may be used in the other area as directed by Engineer-in-charge. | | | | | |

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|--|
| 22. OT & Clean area shall be painted with anti-bacterial paint on all exposed concrete and plaster surfaces. |
| 23. All the views attached with the tender documents are indicative only. |
| 24. All counters i.e. nurse stations, receptions, medicine issue counter, helpdesk etc. shall have vertical surfaces with Italian marble and horizontal surfaces Italian marble (50%) and granite (50%) along with glass glazing above counter up to 2400mm high with required number of holes in glass. Customized furniture to be provided below counters. Provision for microphone facilities (both ways) on counters to be provided. |
| 25. Exposed fair faced uniform color concrete face with treatment as per standard practice with special shuttering including sand blasting and silicone paint as required |
| 26. Exposed machine made brickwork shall have silicon painting |
| 27. Paint shall be used along with POP as applicable. |

The contents of “EXTERNAL FINISHES – HOSPITAL BLOCK & AYUSH BLOCK” in the DBR are replaced by the contents given below



1. FAÇADE SHALL HAVE FAIR FACED UNIFORM COLOURED CONCRETE FINISH (10%) + MACHINE MADE CLAY BRICK (25%) + STRUCTURAL GLAZING (30%) WITH DGU SOLAR GLASS + ALUMINIUM LOUVERS (5%) + GRC JALI (3%) + GRANITE CLADDING (10%) + VENTILATED FAÇADE TERRACOTTA TILE (600X600 MIN) DRY CLADDING (10%) + MURAL & ART WORK (2%) + ZINC CLADDING (5%)
2. SEMIUNITIZED GLAZING SYSTEM (GRIHA COMPLIANCE)
3. SPIDER GLAZING AT EXTERNAL WALL OF ENTRANCE LOBBY.
4. SAND BLASTED & FLAMMED GRANITE COMBINATION ON ENTRANCE & HANDICAP RAMP.
5. ALL OPEN CORRIDORS WILL HAVE SS RAILING BRUSH FINISH
6. CONCRETE KERB ON EDGES OF FOOTPATHS, GREEN ISLANDS, ETC.

7. FOOTPATHS: FLAMED GRANITE (80%) + TRIMIX (15%) + BLUE HARD STONE (5%)
8. PLANTERS & WATER BODY IN FLAMMED GRANITE.
9. BOTTOM SURFACE OF THE PORCH & BUILDINGS WILL BE FAIR FACED CONCRETE FINISH (60%) + METAL FALSE CEILING (10%) + PLASTER WITH PLASTIC EMULSION PAINT (30%).
10. BUILDING FACADE LIGHTING AS PER REQUIRED LUX LEVEL
11. PARKING AREA: DRIVEWAYS - TRIMIX CONCRETE, CAR PARKING - TRIMIX (70%), FLAMED GRANITE (20%), GRASS PAVERS (10%) WITH LANE MARKING ON ROAD.
12. WINDOW CILL & JAMB OPENING SHALL BE COVERD BY THE SAME FINISHIES AS MENTIONED UNDER POINT NO.1 ABOVE.
13. ART WORK, SCULPTURE, WALL MURALS (METAL, GLASS MOSAIC TILES ETC) SHALL BE AS PER APPROVED VIEWS & DECIDED BY ENGINEER-IN-CHARGE.
14. IN CASE OF MACHINE MADE BRICK ADDITIONAL HALF WALL WILL PROVIDED IF REQUIRED.
15. TO HIDE THE SERVICES ON TERRACE, 3.0M HIGH PARAPET WALL WITH GRC JAIL / ALUMINIUM LOUVERS WITH FAIR FACED CONCRETE BAND ON TOP.
16. CONNECTION BETWEEN HOSPITAL WINGS WITH PARABOLA IN FARE FACED CONCRETE AND SOLAR PANEL ON IT.

NOTE:

- ALL FINISHING ITEMS WITH ANY COMBINATION(S) AND PATTERN(S) WILL BE DECIDED BY ENGINEER-IN-CHARGE WITH 100 % VARIATION OF ANY ITEM / MATERIALS / SHADE/ COLOUR.
- SIZES UPTO 1200X1200 MM TILES , STONES, FALSE CEILINGS, ALUMINIUM ITEMS, TROLLEY GUARDS, WATER PROOFING AND ANY OTHER ITEMS AT ANY LOCATIONS WILL BE DECIDED BY ENGINEER-IN-CHARGE.
- PRESENTATION(S) AND ARTISTIC VIEWS SHALL BE PRESENTED FOR DECISION OF MATERIALS, FINISHES AND COLOURS ETC. FOR INTERNAL AND EXTERNAL FINISHES OF THE BUILDING(S).
- EXPOSED FAIR FACED UNIFORM COLOR CONCRETE SUFACE WITH TREATMENT AS PER STANDARD PRACTICE WITH SPECIAL SHUTTERING INCLUDING SAND BLASTING AND SILICONE PAINT AS REQUIRED.
- EXPOSED MACHINE MADE BRICKWORK SHALL HAVE SILICON PAINTING.

The contents of INTERNAL FINISHING SCHEDULE – ACADEMIC BLOCK (ANNEXURE – 2) in the DBR are replaced by the contents given below

| LEGEND | WALLS / COLUMNS | CEILING | FLOORING | SKIRTING | BROAD APPLICATION AREA |
|--------|---|--|--|--|------------------------|
| | WALL - Italian Marble (80%) + Vitrified Tile (20%) COLUMN - Italian Marble (50%) + Lacquered Glass with SS Strip (30%) + Wooden Paneling (20%) | Metallic (25%) + Mineral fiber (40%) + Gypsum (20%) + Calcium Silicate (10%) + Baffle (5%) | Granite (80%) + Epoxy Terrazzo (20%) + | As per Flooring, Dado on wall -1300 mm (+/- 100 mm) including 100 granite Band, Dado on Column- Full Height | Entrance Lobby |
| | Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band) + Plastic Emulsion Paint | Fair faced concrete Finish (80%) + Metallic Ceiling (20%), | Granite (80%) + Marble White/ green (20%), Flamed / Polished Granite below porch, | As per wall finishes | Step / Ramp |

| | | | | | |
|--|--|---|---|---|---|
| | Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band,)+Plastic Emulsion Paint | Metallic (40%) + Mineral fiber (40%) + Gypsum (10%) + Baffle (10%) | Granite (80%) + Marble white/ green (10%) + Vitrified tile (10%) | Dado as mentioned in wall finishes | Corridors including Niches, Offsets, connecting areas of corridors upto stairs, entrance. |
| | Plastic Emulsion paint with POP | Metallic (40%) + Mineral fiber (40%) + Gypsum (10%) + Baffle (10%) | Granite (10%) + Marble white/ green (10%) + Vitrified tile (70%)+ Wooden flooring (10%) | As per Flooring | Faculty room, Examination Hall, Demo room |
| | Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band,)+Plastic Emulsion Paint | Metallic (50%) + Gypsum (20%) + Mineral fiber (30%) | Granite (10%) + Vitrified tile (80%) + PVC flooring (10%) | As per Flooring & Wall finishes | Lab + Common Rooms |
| | Wooden paneling (50%) + Lacquered Glass (10%) + Italian (10%) + Granite (10%) + Vitrified Tile (10%) + Plastic Emulsion Paint over POP (10%) | Metallic (40%) + Mineral fiber (30%) + Gypsum (20%) + Wooden (5%) + Baffle (5%) | Granite (30%) + Vitrified Tile (60%) + Wooden Flooring (10%) | As per Flooring & Wall finishes | Library |
| | Wooden paneling (50%) + Lacquered Glass (10%) + Italian (10%) + Granite (10%) + Vitrified Tile (10%) + Plastic Emulsion Paint over POP (10%) | Metallic (40%) + Mineral fiber (30%) + Gypsum (20%) + Wooden (5%) + Baffle (5%) | Wooden (10%) + Granite (50%) + Italian (10%) + Carpet (10%) + Marble (10%) + Vitrified Tile (10%) | As per flooring, Dado on wall -1300 mm (+/- 100 mm) including 100 granite Band | Admin Area |
| | Plastic Emulsion Paint over POP | Metallic (10%) + Mineral fiber (80%) + Plastic emulsion paint (10%) | IPS Flooring with Hardeners + Epoxy Paint | As per flooring | A.H.U., Stores, Pantry and Service Areas |
| | Vitrified Tile (80%) + Granite (20%) | Calcium Silicate (90%) + Perforated Metallic (10%) | Vitrified Tile (80%) + Granite (20%) | Vitrified Tile/ Granite upto False Ceiling | Attached Toilets |
| | Vitrified Dado (80%) + Granite Dado (20%) + Plastic Emulsion Paint with POP over dado + 65 mm Dia Guard Rail SS Brush Finish | Plastic Emulsion Paint over POP | Tread/ Riser- 20 mm thick Granite in single piece with Nosing & Grooves on Tread | Dado-1300 mm (+/- 100 mm) including 100 granite Band) | Staircases |
| | External Texture Paint | | Grading & Water proofing as per specification, Heat reflecting surface treatment as per GRIHA | As per flooring | Terrace |
| | | | Courtyards / Green Terrace shall be suitably sunk to receive good earth for plantation. This sunken area should have designed | | Courtyards / Green Terrace |

| | | | | | |
|--|---|--|--|---|-----------------|
| | | | drainage and drip irrigation system including water proofing with warranty as per tender condition | | |
| | Wooden acoustical paneling (70%) + Fabric/ Gypsum (20%) +Acoustical Mineral fiber (10%) | Wooden acoustical Paneling (70%) + Gypsum (10%) + Acoustical Mineral fiber (10%) + Baffles (10%) | Granite (20%) + Engineered Wooden (80%) | Dado full height as marked in wall finishes | Lecture Theatre |
| | <ul style="list-style-type: none"> Lift Fascia Wall - 1500 mm Italian Marble Cladding + SS Jamb on Lift Doors + Lacquered Glass up to False Ceiling + Display Panel / TV flushed in Lacquered Glass (Refer Indicative View) Lift Other Walls - Vitrified Tile Dado-1300 mm (+/- 100 mm) including 100 granite Band,) + Plastic Emulsion Paint with POP | Gypsum (10%) + Mineral fiber (80%)+ Baffle (10%) | Granite (95%) + Epoxy Terrazzo (5%) | As mentioned in wall finishes | Lift Lobby |
| Note:- | | | | | |
| 1. All Public Toilets will have Laminated Board Partition System with Acrylic Solid Surface (Corian or equivalent) counter with monolithic basin + Granite Flooring+ Granite/ Lacquered Glass Cladding on walls + Calcium Silicate Ceiling (refer indicative view) | | | | | |
| 2. All Urinals will have Frosted Toughened Glass partitions. | | | | | |
| 3. All Attached toilet Counters to be in granite finish and as per approved view | | | | | |
| 4. All Railings to be in Stainless Steel. | | | | | |
| 5. Terraces on Intermediate Levels and above Porches will have Terrace Gardens/ Courtyards / Green Terrace shall be suitably sunk to receive good earth for plantation. This sunken area should have designed drainage and drip irrigation system including water proofing with warranty as per tender condition | | | | | |
| 6. Tact Tiles to be installed in every corridor leading upto the Ramps, Staircases & Lift Lobbies | | | | | |
| 7. All tiles will be laid with spacers on wall and floors and filled with Epoxy Grouting | | | | | |
| 8. In Faculty area rooms wall towards the corridor will have glass / Aluminium partition system with frame as per specs. | | | | | |
| 9. LED TV/ Display Screen in Lift Lobby will be flushed with the Lacquered Glass, above 1500 mm high granite/ Italian Marble Cladding.(lacquered Glass with 12/16 mm SS Strip in Horizontal Joints) refer indicative view. | | | | | |
| 10. For Kitchen - Refer finishes of Specialized Services also. | | | | | |
| 11. Lift Floor Operating Panel to be flushed with SS Jamb refer indicative view. | | | | | |
| 12. All window sill & Jamb shall have Granite stone finish from inside & External Stone finish from outside. | | | | | |
| 13. All finishing items with any combination(s) and pattern(s) will be decided by Engineer-In-Charge with 100% variation of any item/ Materials/ Shade/ colour. | | | | | |
| 14. Sizes upto 1200x1200 mm Tiles, Stones, False Ceilings, Aluminium Items, Water Proofing and any other items at any locations will be decided by Engineer-In-Charge. | | | | | |
| 15. Presentation(s) and Artistic Views shall be presented for decision of materials, Finishes and Colors etc. for Internal and External Finishes of the building(s). | | | | | |

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| 16. Over all quantity of the above finishing items shall be calculated and balanced unused costly items may be used in the other area as directed by Engineer-in-charge. |
| 17. All the views attached with the tender documents are indicative only. |
| 18. All counters shall have vertical surfaces with Italian marble and horizontal surfaces Italian marble (50%) and granite (50%) along with glass glazing above counter up to 2400mm high with required number of holes in glass. Customized furniture to be provided below counters. Provision for microphone facilities (both ways) on counters to be provided. |
| 19. Paint shall be used along with POP as applicable. |
| 20. Exposed fair faced uniform color concrete face with treatment as per standard practice with special shuttering including sand blasting and silicone paint as required |
| 21. Exposed machine made brickwork shall have silicon painting |

The contents of EXTERNAL FINISHES – ACADEMIC BLOCK in the DBR are replaced by the contents given below



1. FAÇADE SHALL HAVE FAIR FACED UNIFORM COLOURED CONCRETE FINISH (20%) + MACHINE MADE CLAY BRICK (35%) + STRUCTURAL GLAZING (20%) WITH DGU SOLAR GLASS + ALUMINIUM LOUVERS (5%) + GRC JALI (3%) + GRANITE CLADDING (10%) + VENTILATED FAÇADE TERRACOTTA TILE (600X600 MIN) DRY CLADDING (10%) + MURAL & ART WORK (2%) + ZINC CLADDING (5%)
2. SEMIUNITIZED GLAZING SYSTEM (GRIHA COMPLIANCE)
3. SPIDER GLAZING AT EXTERNAL WALL OF ENTRANCE LOBBY.
4. SAND BLASTED & FLAMMED GRANITE COMBINATION ON ENTRANCE & HANDICAP RAMP.
5. ALL OPEN CORRIDORS WILL HAVE SS RAILING BRUSH FINISH
6. CONCRETE KERB ON EDGES OF FOOTPATHS, GREEN ISLANDS, ETC.
7. FOOTPATHS: FLAMED GRANITE (80%) + TRIMIX (15%) + BLUE HARD STONE (5%)

8. PLANTERS & WATER BODY IN FLAMMED GRANITE.
9. BOTTOM SURFACE OF THE PORCH & BUILDINGS WILL BE FAIR FACED CONCRETE FINISH (60%) + METAL FALSE CEILING (10%) + PLASTER WITH PLASTIC EMULSION PAINT (30%).
10. BUILDING FACADE LIGHTING AS PER REQUIRED LUX LEVEL
11. PARKING AREA: DRIVEWAYS - TRIMIX CONCRETE, CAR PARKING - TRIMIX (70%), FLAMED GRANITE (20%), GRASS PAVERS (10%) WITH LANE MARKING ON ROAD.
12. WINDOW CILL & JAMB OPENING SHALL BE COVERD BY THE SAME FINISHIES AS MENTIONED UNDER POINT NO.1 ABOVE.
13. ART WORK, SCULPTURE, WALL MURALS (METAL, GLASS MOSAIC TILES ETC) SHALL BE AS PER APPROVED VIEWS & DECIDED BY ENGINEER-IN-CHARGE.
14. IN CASE OF MACHINE MADE BRICK ADDITIONAL HALF WALL WILL PROVIDED IF REQUIRED.
15. TO HIDE THE SERVICES ON TERRACE, 3.0M HIGH PARAPET WALL WITH GRC JAIL / ALUMINIUM LOUVERS WITH FAIR FACED CONCRETE BAND ON TOP.

NOTE:

- ALL FINISHING ITEMS WITH ANY COMBINATION(S) AND PATTERN(S) WILL BE DECIDED BY ENGINEER-IN-CHARGE WITH 100 % VARIATION OF ANY ITEM / MATERIALS / SHADE/ COLOUR.
- SIZES UPTO 1200X1200 MM TILES , STONES, FALSE CEILINGS, ALUMINIUM ITEMS, TROLLEY GUARDS, WATER PROOFING AND ANY OTHER ITEMS AT ANY LOCATIONS WILL BE DECIDED BY ENGINEER-IN-CHARGE.
- PRESENTATION(S) AND ARTISTIC VIEWS SHALL BE PRESENTED FOR DECISION OF MATERIALS, FINISHES AND COLOURS ETC. FOR INTERNAL AND EXTERNAL FINISHES OF THE BUILDING(S).
- EXPOSED FAIR FACED UNIFORM COLOR CONCRETE SUFACE WITH TREATMENT AS PER STANDARD PRACTICE WITH SPECIAL SHUTTERING INCLUDING SAND BLASTING AND SILICONE PAINT AS REQUIRED.
- EXPOSED MACHINE MADE BRICKWORK SHALL HAVE SILICON PAINTING.

The contents of FINISHES – AUDITORIUM in the DBR are replaced by the contents given below



INTERNAL FINISH

1. ENTRANCE LOBBY FLOORING WILL HAVE GRANITE (70%) + ITALIAN MARBLE (20%) + WOODEN (10%), WALL - ITALIAN MARBLE (80%) + VITRIFIED TILE (20%) AND COLUMN - ITALIAN MARBLE (50%) + LACQUERED GLASS WITH SS STRIP (30%) + WOODEN PANELING (20%)
2. SEATING AREA - CARPET FLOORING (80%) AND ENGINEERING WOOD FLOORING (20%), WALL - WOODEN ACOUSTICAL PANELING (70%) + FABRIC/ GYPSUM (20%) + ACOUSTICAL MINERAL FIBER (10%), FALSE CEILING - WOODEN ACOUSTICAL PANELING (70%) + GYPSUM (10%) + ACOUSTICAL MINERAL FIBER (10%) + BAFFLES (10%)
3. SOUND PROOF FIRE RATED DOORS AT ALL ENTRY DOORS
4. SERVICE AREA WILL HAVE TRIMIX CONCRETE FLOORING / KOTA STONE. PLASTIC EMULTION PAINT ON WALL & CEILING.
5. VITRIFIED TILE IN ALL ROOMS
6. COUNTER - VERTICAL SURFACES WITH ITALIAN MARBLE AND HORIZONTAL SURFACES ITALIAN MARBLE (50%) AND GRANITE (50%) ALONG CUSTOMIZED FURNITURE BELOW COUNTERS.
7. STAIRS - TREAD/ RISER- 20 MM THICK GRANITE IN SINGLE PIECE WITH NOSING & GROOVES ON TREAD
8. TOILETS WILL HAVE GRANITE IN FLOORING, GRANITE / LACQUARED GLASS IN DEDO UPTO FALSE CEILING, KOREAN COUNTER WITH MONOLHIC BASINS. CALSIUM CILCATE FALSE CEILING. SENSOR OPERATED URINALS & BASINS WITH HOT & COLD SINGLE TAP MIXTURE.
9. ALUMINIUM DOOR FRAMES WITH FLUSH DOOR WITH LAMINATED BOTH SIDES OF ANY PATTERN WITH SS HARDWARE
10. LAMINATED BOARD PARTITION IN TOILET CUBICLES
11. STAGE PANEL, SOUND SYTEM, CURTAIN SYSTEM, STAGE LIGHTING, CAT WALK ETC, ARE AS PER STANDARD.
12. AUDITORIUM CHAIR SHOULD BE OF GODREJ OR EQUIVALENT MAKE.
13. PROJECTOR SHOULD BE WI-FY ENABLED.

EXTERNAL FINISH

1. FAÇADE SHALL HAVE FAIR FACED UNIFORM COLOURED CONCRETE FINISH (20%) + MACHINE MADE CLAY BRICK (35%) + STRUCTURAL GLAZING (20%) WITH DGU SOLAR GLASS + ALUMINIUM LOUVERS (5%) + GRC JALI (3%) + GRANITE CLADDING (10%) + VENTILATED FAÇADE TERRACOTTA TILE (600X600 MIN) DRY CLADDING (10%) + MURAL & ART WORK (2%) + ZINC CLADDING (5%)
2. SEMIUNITIZED GLAZING SYSTEM (GRIHA COMPLIANCE)
3. SPIDER GLAZING AT EXTERNAL WALL OF ENTRANCE LOBBY.
4. SAND BLASTED & FLAMMED GRANITE COMBINATION ON ENTRANCE & HANDICAP RAMP.
5. ALL OPEN CORRIDORS WILL HAVE SS RAILING BRUSH FINISH
6. CONCRETE KERB ON EDGES OF FOOTPATHS, GREEN ISLANDS, ETC.
7. FOOTPATHS: FLAMED GRANITE (80%) + TRIMIX (15%) + BLUE HARD STONE (5%)
8. PLANTERS & WATER BODY IN FLAMMED GRANITE.
9. BOTTOM SURFACE OF THE PORCH & BUILDINGS WILL BE FAIR FACED CONCRETE FINISH (60%) + METAL FALSE CEILING (10%) + PLASTER WITH PLASTIC EMULSION PAINT (30%).
10. BUILDING FACADE LIGHTING AS PER REQUIRED LUX LEVEL
11. PARKING AREA: DRIVEWAYS - TRIMIX CONCRETE, CAR PARKING - TRIMIX (70%), FLAMED GRANITE (20%), GRASS PAVERS (10%) WITH LANE MARKING ON ROAD.
12. WINDOW CILL & JAMB OPENING SHALL BE COVERD BY THE SAME FINISHIES AS MENTIONED UNDER POINT NO.1 ABOVE.

13. ART WORK, SCULPTURE, WALL MURALS (METAL, GLASS MOSAIC TILES ETC) SHALL BE AS PER APPROVED VIEWS & DECIDED BY ENGINEER-IN-CHARGE.
14. IN CASE OF MACHINE MADE BRICK ADDITIONAL HALF WALL WILL PROVIDED IF REQUIRED.
15. TO HIDE THE SERVICES ON TERRACE, 3.0M HIGH PARAPET WALL WITH GRC JAIL / ALUMINIUM LOUVERS WITH FAIR FACED CONCRETE BAND ON TOP.

NOTE:

- ALL FINISHING ITEMS WITH ANY COMBINATION(S) AND PATTERN(S) WILL BE DECIDED BY ENGINEER-IN-CHARGE WITH 100 % VARIATION OF ANY ITEM / MATERIALS / SHADE/ COLOUR.
- SIZES UPTO 1200X1200 MM TILES , STONES, FALSE CEILINGS, ALUMINIUM ITEMS, TROLLEY GUARDS, WATER PROOFING AND ANY OTHER ITEMS AT ANY LOCATIONS WILL BE DECIDED BY ENGINEER-IN-CHARGE.
- PRESENTATION(S) AND ARTISTIC VIEWS SHALL BE PRESENTED FOR DECISION OF MATERIALS, FINISHES AND COLOURS ETC. FOR INTERNAL AND EXTERNAL FINISHES OF THE BUILDING(S).
- EXPOSED FAIR FACED UNIFORM COLOR CONCRETE SUFACE WITH TREATMENT AS PER STANDARD PRACTICE WITH SPECIAL SHUTTERING INCLUDING SAND BLASTING AND SILICONE PAINT AS REQUIRED.
- EXPOSED MACHINE MADE BRICKWORK SHALL HAVE SILICON PAINTING.

The bidders may also note the following which shall be an integral part of the DBR:

- A. The scope of work includes Construction of Two (02) Blocks of "Dining Hall & Kitchen" in place of one (01) block mentioned in the tender documents.
- B. All kitchens in housing block shall have modular kitchen with under counter and overhead storage with exhaust hood and chimney. Arrangement for keeping Refrigerator, Washing machine, Oven with electricity, water supply and drainage system.
- C. MS powder coated designer safety grill (having weight not less than 15 Kg/sqm) shall be provided in all Windows of Residential Complex and Hostels.
- D. All internal paint shall be used along with POP as applicable.
- E. The Guest house shall be provision for installation of two (02) lifts. However only one (01) lift (Speed 1.0MPS) to be installed as part of this tender.
- F. Provision of access card system to be done in the Guest Rooms/Suite in the Guest HOUse.
- G. All G+2 storey or below height buildings, foundations and columns shall have provision of two (02) additional floors as future expansion.
- H. Amphitheater: Tread/seating – Kota stone with nosing, Riser – Sand stone
- I. Main Gate Complex: External Finish – Granite (50%), Structural Glazing (30%), Terracotta ventilated façade (20%)
Security Room & Toilet – Granite flooring, glazing, granite counter, Plastic emulsion paint etc.
- J. Structural Glazing shall be provided in staircase of Hostel Blocks, Housing Blocks, Dining Blocks

- K. Boundary wall of suitable height with MS grill and Concertina Wire and gate shall be provided at Director Bungalow, Girls Hostel, Nursing Hostels.
- L. All campus shall be CCTV and Wi-Fi enabled. Control room for CCTV for all campus area shall be provided at entry and exit gate.
- M. Roof Treatment of all buildings - Heat reflective surface treatment as per GRIHA
- N. All terrace gardens shall be suitably sunk to receive good earth for plantation. This sunken area should have designed drainage and drip irrigation system including water proofing with warranty as per tender
- O. The road network shall be as per following details
 - a. Bituminous road as per IRC design along with seal coat – 80% of overall road network
 - b. Concrete road as per IRC design – 20% of overall road network
- P. Landscaping – with Drip irrigation system as per design.
- Q. All aluminium sections should be powder coated only.
- R. Dining Block (s) in Hostel Campus – Kitchen with ventilation & exhaust system, platform for working and washing and provision of suitable size of gas bank
- S. The provision of Lacquered glass in Lift lobby in the Hostels and Residential Complex stands deleted. The Lift Lobby in the Hostels shall be provided with granite.
- T. Provision of double rebate door frame with fly proof shutter on outer side shall be provided in the following:
 - a. Main Entrance Door of each Flat/Hostel Room
 - b. All Balcony doors of housing and hostels.
- U. All epoxy terrazzo shall be controlled machine made/laid.
- V. Housing and Hostel - All handrails shall be Designer Powder coated MS Grill with wooden top handrail.
- W. Housing Type V, Type VI & Director Bungalow: Drawing room & Dining room - Italian marble flooring, all flush doors in teak wood finish.
- X. Public utilities/toilets (06 nos.) at various locations as shown in site plan will have Laminated Board Partition System with Acrylic Solid Surface (Corian or equivalent) counter with monolithic basin + Granite Flooring+ Granite cladding on walls.