

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
A) SOC ROOM (SIZE 52x22)		
A-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
A-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
A-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
A-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent
A-5	Doors fire rated	Supply and installation of factory finished 120 Mins fire rated readymade door shutter – Halspan make complete as per manufacturers specifications as follows: 1) Fire Rating: 120 Min fire rated monolithic solid core door as per BS 476: Part 22:1987 with lippings of min. 6mm thick hardwood on applicable edges of door shutter fixed using PUR glue, radius to vertical edges, minimum lipping density = 640 kg/m3 2) Face Laminate / wooden veneer shall be provided on both faces as per designer's requirement. 3) Frame: Hardwood Suitable frame as per recommendation of Halspan, Density >650 kg/ m3 4) Door protection: shutter shall be protected with bubble sheet (250 GSM) protection with tape 5) Essential hardware including hinges, door closer, intumescent fire strips are included in the rate 6) Rate includes for fixing of all other hardware, fittings, etc. all complete. Drawings and details of handles and hardware are to be shared with the fire-door manufacturer at the time of placing the order and the suitable insulation medium for fixing of the hardware to conform to the required fire rating shall be provided. Pre-approved Make: Halspan core 60 mm with laminate/ veneer finish on both sides or equivalent. This item shall be considered complete when the contractor shall submit a certificate from the manufacturer than the complete door (including door frame) is installed as per manufacturer's specification and is rated for 120min fire barrier as per BS 476: Part 22:1987. Also, including 120 min Fire rated glass panel (size 300 x 300 mm) as a Vision glass and including of SS door fittings/fixtures, complete & Sizes of Door shall be as per actual requirement at site

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Sr. No.	Description	Remarks
A-6	Ceiling	a. Supply of Designer Acoustic Metal False Ceiling (Make Pyrotech or equivalent) 1) Factory made acoustic modular metal false ceiling of powder coated panels. Make shall comprise of perforated and non-perforated metal panels made through CNC laser Cutting, bending & punching. Panel shall be of 0.6mm CRCA sheet of approved powder coating finish. Panels shall be designed to achieve shape and design as per the design consultant with the combination of acrylic panels with lights, designed to enhance visual feel, with provision for easy installation and maintenance, integrated lighting and scope for integration of building services like HVAC and fire detection/ fighting system. The designer metal ceiling shall be greenguard gold tested/certified (from UL/Intertek). Valid certificate/test report to be submitted along with the technical bid. Metal modular false ceiling shall have Noise absorption coefficient (NRC) value 0.60 according to IS:8225-1987, ISO: 354-1985 and ASTM 423-90. 2) It is well known that metal is resistant to fire as compared to wood & fabric. However, from fire and safety point of view, to ensure that the used material is not subjected to any kind of surface treatment which provokes fire. The proposed ceiling tiles shall be Class A certified as per ASTM e84 (from UL / Intertek) for surface spread of flame and smoke generation. This is mandatory to ensure that the materials used in the interiors do not provoke fire. Valid certificate/test report to be submitted along with the technical bid. 3) To ensure restriction of hazardous substances; so that the final product does not contaminate the environment and we give a healthy life to our coming generations it is necessary that the modular metal ceiling system shall be RoHS certified (from UL / Intertek). Valid certificate/test report to be submitted along with the technical bid. 4) To avoid dark spots/areas in the control room it is necessary that continuous linear lights are used across the width/length of the control room. UL audit certified design feature of integrated channel in ceiling for quick installation & replaceability of continuous linear light: The ceiling system having integrated inbuilt channel for installation of cove lights and shall permit quick and easy replacement of cove light without using any tools. Replacement to be carried out within 120 Seconds per meter. Valid certificate/test report to be submitted along with the technical bid. 5) Seismic safety of user & control room equipment is a prime concern area. The metal ceiling shall sustain the seismic vibrations as per design spectrum IS 1893 for zone 4 vibrations or better. The test shall be carried out by authorized government agency. Valid certificate/test report to be submitted along with the technical bid. 6) Structure shall be made from heavy duty powder coated CRCA steel sheet (minimum sheet thickness 0.8 to 1.6mm). It shall be securely grouted from roof with help of anchor fastener and GI self-threaded rods. It shall be formed with the help of slotted rolled W sections (stiffener) and Master C section with help of M6 cage nut and bolts.
		b. Supply of Designer Calcium Silicate Ceiling Plain Calcium Silicate Acoustic Boards for false ceiling with 08mm Approximately thick, Structure for underside of suspended grid formed of GI perimeter channels. Wood screws and metal expansion raw plugs for fixing with wall. Plastic emulsion paint of approved make and shade for finishing surface of Calcium Silicate Boards. Specification: Calcium Silicate Board is manufactured from a mixture of Portland cement, fine silica, special cellulose fibers and selected fillers to impart durability, toughness, fire and moisture resistance. (Make Pyrotech or equivalent)

B) DC ROOM (SIZE 24x16)

Sr. No.	Description	Remarks
B-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
B-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
B-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)

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Sr. No.	Description	Remarks
B-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent
B-5	Doors fire rated	Supply and installation of factory finished 120 Mins fire rated readymade door shutter – Halspan make complete as per manufacturers specifications as follows: 1) Fire Rating: 120 Min fire rated monolithic solid core door as per BS 476: Part 22:1987 with lippings of min. 6mm thick hardwood on applicable edges of door shutter fixed using PUR glue, radius to vertical edges, minimum lipping density = 640 kg/m³ 2) Face Laminate / wooden veneer shall be provided on both faces as per designer's requirement. 3) Frame: Hardwood Suitable frame as per recommendation of Halspan, Density >650 kg/ m³ 4) Door protection: shutter shall be protected with bubble sheet (250 GSM) protection with tape 5) Essential hardware including hinges, door closer, intumescent fire strips are included in the rate 6) Rate includes for fixing of all other hardware, fittings, etc. all complete. Drawings and details of handles and hardware are to be shared with the fire-door manufacturer at the time of placing the order and the suitable insulation medium for fixing of the hardware to conform to the required fire rating shall be provided. Pre-approved Make: Halspan core 60 mm with laminate/ veneer finish on both sides or equivalent. This item shall be considered complete when the contractor shall submit a certificate from the manufacturer than the complete door (including door frame) is installed as per manufacturer's specification and is rated for 120min fire barrier as per BS 476: Part 22:1987. Also, including 120 min Fire rated glass panel (size 300 x 300 mm) as a Vision glass and including of SS door fittings/fixtures, complete & Sizes of Door shall be as per actual requirement at site
B-6	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK

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Sr. No.	Description	Remarks
B-7	Rised floor	Supplying and fixing in position antistatic raised flooring with floor panels , pedestals and stingers . The floor panel of size 600x 600x35 mm thick and made out of light weight cementitious core with steel casing on the top & bottom. It can take concentrated point load of 3.6 KN over 25mm sq. & uniformly distributed load strength (UDL) of 16 KN (1680 Kgs).The entire panel shall have an electro deposition of cathodic epoxy paint finish for lifetime protection on exposed surface.The panel shall be finished with 1.2 mm high abrasion, antistatic High Pressure Laminate in size 600mm x 600mm with 6mm beading on all sides to provide protection of edges. The Panels should be non – combustible as per BS 476, Part 4.The Pedestal of size 76 x 76 mm x 3.00 mm flat head mechanically riveted to a 75 mm long 16 mm Dia rolled formed stud and 2 check nuts for level adjustment and made out of steel, zinc plated, positively plate. Pedestal assembly shall provide for easy adjustment of levelling & accurately alignclipped to the steel top panels to ensure lateral restraint. The Pedestal Base assembly shall consist of 25.00 mm OD pipe of thickness 1.6mm mechanically locked on a press for perpendicularity and then welded to a base plate of 100 x 100 x 2mm thick with stiffening folds for an required level . The pedestal steel base plate shall be fixed onto the sub floor with epoxy adhesive & or mechanical fixing such as screws. The steel rectangular stringer of size 570x30x20 x 1 mm thick to be fixed over pedestals to give max stability and correct alignment . The work is to be completed in proper line and level as per manufacturer specifications and instructions of Engineer in charge

C) UPS ROOM (SIZE 10x12)

Sr. No.	Description	Remarks
C-1	Puff Partition & Puff Ceiling	Providing and fixing MS structure with Insulated Roof of composite PUF panel made of Pre-painted Galvanized Iron (PPGI) corrugated sheet (0.5mm thick) on both side of puff panel (min thickness50 / max thickness 80mm) fixed on the required MS RHS structure for proper stability including paint and self thread screws for fixing and silicone and PU foam to seal all the gaps to completely seal the roof from water.PPGI Corrugated sheet made: TATA bluescope or similar.Minimum MS weight: 12.56 kg/sqft. Paint on MS structure: 1coat of redoxide primer and 2coat of enamel paint (Asian).Galvanized self tapping screws by: Patta or HP or similar .Sheet area shall be measured for payment.
C-2	Rised floor	Supplying and fixing in position antistatic raised flooring with floor panels , pedestals and stingers . The floor panel of size 600x 600x35 mm thick and made out of light weight cementitious core with steel casing on the top & bottom. It can take concentrated point load of 3.6 KN over 25mm sq. & uniformly distributed load strength (UDL) of 16 KN (1680 Kgs).The entire panel shall have an electro deposition of cathodic epoxy paint finish for lifetime protection on exposed surface.The panel shall be finished with 1.2 mm high abrasion, antistatic High Pressure Laminate in size 600mm x 600mm with 6mm beading on all sides to provide protection of edges. The Panels should be non – combustible as per BS 476, Part 4.The Pedestal of size 76 x 76 mm x 3.00 mm flat head mechanically riveted to a 75 mm long 16 mm Dia rolled formed stud and 2 check nuts for level adjustment and made out of steel, zinc plated, positively plate. Pedestal assembly shall provide for easy adjustment of levelling & accurately alignclipped to the steel top panels to ensure lateral restraint. The Pedestal Base assembly shall consist of 25.00 mm OD pipe of thickness 1.6mm mechanically locked on a press for perpendicularity and then welded to a base plate of 100 x 100 x 2mm thick with stiffening folds for an required level . The pedestal steel base plate shall be fixed onto the sub floor with epoxy adhesive & or mechanical fixing such as screws. The steel rectangular stringer of size 570x30x20 x 1 mm thick to be fixed over pedestals to give max stability and correct alignment . The work is to be completed in proper line and level as per manufacturer specifications and instructions of Engineer in charge

D) FORENSIC LAB (SIZE 6x12) (Room No. 308)

D-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
D-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
D-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)

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Sr. No.	Description	Remarks
D-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent
D-5	Doors fire rated	Supply and installation of factory finished 120 Mins fire rated readymade door shutter – Halspan make complete as per manufacturers specifications as follows: 1) Fire Rating: 120 Min fire rated monolithic solid core door as per BS 476: Part 22:1987 with lippings of min. 6mm thick hardwood on applicable edges of door shutter fixed using PUR glue, radius to vertical edges, minimum lipping density = 640 kg/m³ 2) Face Laminate / wooden veneer shall be provided on both faces as per designer's requirement. 3) Frame: Hardwood Suitable frame as per recommendation of Halspan, Density >650 kg/ m³ 4) Door protection: shutter shall be protected with bubble sheet (250 GSM) protection with tape 5) Essential hardware including hinges, door closer, intumescent fire strips are included in the rate 6) Rate includes for fixing of all other hardware, fittings, etc. all complete. Drawings and details of handles and hardware are to be shared with the fire-door manufacturer at the time of placing the order and the suitable insulation medium for fixing of the hardware to conform to the required fire rating shall be provided. Pre-approved Make: Halspan core 60 mm with laminate/ veneer finish on both sides or equivalent. This item shall be considered complete when the contractor shall submit a certificate from the manufacturer than the complete door (including door frame) is installed as per manufacturer's specification and is rated for 120min fire barrier as per BS 476: Part 22:1987. Also, including 120 min Fire rated glass panel (size 300 x 300 mm) as a Vision glass and including of SS door fittings/fixtures, complete & Sizes of Door shall be as per actual requirement at
D-6	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24x3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK

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Sr. No.	Description	Remarks
E) GALLERY (SIZE 160x12)		
E-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
E-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand)
		b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
		c. Providing & laying RCC 1:1.5:3 including reinforcement as per sectional drawing, centering & shuttering, etc. complete
E-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand)
		b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
E-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent
E-5	Doors fire rated glass double leaf size 3000x3300 mm	Fire Resistant Glazed Sliding Door Supply and installation of tested fully glazed fire rated double leaf automatic sliding door with 120 minutes of integrity and radiation control (EW 120) and insulation for 30 minutes (EI 30) with symmetrical (Bi-Directional) fire protection. The frames shall be imported cold rolled steel sheets (As per EN standard EN 10327). The overall door opening shall be as per tested evidence and tested as per EN 1634-1 in an accredited international laboratory. The glass shall be 14mm clear 120 min fire rated for Integrity, Radiation control (EW 120) and partially insulation (EI 30) Non Wired Toughened Interlayered glass with a light transmission of 86% and a sound reduction of 38 dB and manufactured in UL & TUV audited Facility and including UL-EU Certification and compliant to class 1(B)1 category of Impact Resistance as per EN 12600. The glass shall be tested for UV resistance duration of 5000 hours. The glass shall provide bi-directional (Symmetrical) fire protection. The item shall be considered complete only when the contractor submits a certification from the manufacturer that the entire product and installation including the junctions with the surrounding civil work and partitions is of required fire rating mentioned above. The test report will be considered valid only if it contains the stamp and signature of the authorized signatory from the manufacturer. Single Unit comprising GDW1+GDW1A+GDW1 (Sliding Door Portion is 2no. shutters) Pre-approved make: Saint Gobain Vetrotech or equivalent.

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Sr. No.	Description	Remarks
E-6	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK
E-7	Texture painting	Providing and applying Premium texture paint finish on Walls, ceiling and cove painting with 3 coats of white premium acrylic emulsion of approved brand and manufacturer (pre-approved make Asian Paints Premium Emulsion) and 2 coats of special effects top coat of approved brand and manufacturer [Pre-approved Asian Paints Royale Play Dune Special Effects Paint - HALO, M609 (Silver)]. Rate to include for surface preparation including application of putty, primer and sanding as per manufacturer's specification to achieve desired effects as per Engineer-in-Charge.

F) ROOM SIZE (SIZE 15x15) Nos. 311,318,316,315

F-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
F-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
F-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
F-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent

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Sr. No.	Description	Remarks
F-5	Doors fire rated glass	Fire Resistant Glazed Single Leaf Door Supply and installation of tested fully glazed fire rated Latched single leaf door system with 120 minutes of integrity and radiation control (EW 120) with symmetrical (Bi-Directional) fire protection. The frames shall be imported cold rolled steel sheets (As per EN standard EN 10327). The overall door opening shall be as per tested evidence and tested as per EN 1634-1 in an accredited international laboratory. The glass shall be 14mm clear 120 min fire rated for Integrity, Radiation control (EW 120) and partially insulation (EI 30) Non Wired Toughened Interlayered glass with a light transmission of 86% and a sound reduction of 38 dB and manufactured in UL & TUV audited Facility and including UL-EU Certification and compliant to class 1(B)1 category of Impact Resistance as per EN 12600. The glass shall be tested for UV resistance duration of 5000 hours. The glass shall provide bi-directional (Symmetrical) fire protection. The item shall be considered complete only when the contractor submits a certification from the manufacturer that the entire product and installation including the junctions with the surrounding civil work and partitions is of required fire rating mentioned above. The test report will be considered valid only if it contains the stamp and signature of the authorized signatory from the manufacturer. Single unit comprising GDWB+GDWA+GDW Pre-approved make: Saint Gobain Vetrotech or equivalent.
F-6	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
F-7	Carpet Tile on Floor	Providing and Laying of Carpet Tile (of colour and pattern as per design by architect) in flooring over a bed of manufacturer's approved adhesive spread evenly over the entire floor. The rate shall include cutting, trimming, fixing and clearing away of residual material to a location as directed. The rate shall also include supplying and laying of a protective layer of PVC or HDPE sheet of 50 microns thickness Layer, held together with tape. Specifications of Carpet tiles shall be as follows: Size : 250mm x 1000mm Yarn Weight : 17 oz/Yd2 (580 GSM) Yarn/ Fiber : 100% Nylon 6 / 6,6 Color System : 100% Solution Dyed Nylon Pile Height Average : 4.0 - 2.5 mm (±0.5 mm) Total Thickness : 6.5mm ± 0.5mm Area of use : Commercial – Heavy Duty Backing structure - Primary : PVC with Fibreglass Electro Static Propensity : Passes AATCC-134 Installation method : Random or as specified Flammability and Safety : Passes ASTM-662 Warranty/Wear performance : 8 Years Pre-approved Model: Harrigton ETERNITY EHS1103B by Euronics. COLORS: GREY WITH BLUE. Providing and laying of Carpet tiles in skirting on walls. All specifications similar to item above.

G) ROOM SIZE Nos. 304,305,306,307, 317 & 319

G-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
G-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
G-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
G-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
G-5	Doors fire rated	Supply and installation of factory finished 120 Mins fire rated readymade door shutter – Halspan make complete as per manufacturers specifications as follows: 1) Fire Rating: 120 Min fire rated monolithic solid core door as per BS 476: Part 22:1987 with lippings of min. 6mm thick hardwood on applicable edges of door shutter fixed using PUR glue, radius to vertical edges, minimum lipping density = 640 kg/m³ 2) Face Laminate / wooden veneer shall be provided on both faces as per designer's requirement. 3) Frame: Hardwood Suitable frame as per recommendation of Halspan, Density >650 kg/ m³ 4) Door protection: shutter shall be protected with bubble sheet (250 GSM) protection with tape 5) Essential hardware including hinges, door closer, intumescent fire strips are included in the rate 6) Rate includes for fixing of all other hardware, fittings, etc. all complete. Drawings and details of handles and hardware are to be shared with the fire-door manufacturer at the time of placing the order and the suitable insulation medium for fixing of the hardware to conform to the required fire rating shall be provided. Pre-approved Make: Halspan core 60 mm with laminate/ veneer finish on both sides or equivalent. This item shall be considered complete when the contractor shall submit a certificate from the manufacturer than the complete door (including door frame) is installed as per manufacturer's specification and is rated for 120min fire barrier as per BS 476: Part 22:1987. Also, including 120 min Fire rated glass panel (size 300 x 300 mm) as a Vision glass and including of SS door fittings/fixtures, complete & Sizes of Door shall be as per actual requirement at site
G-6	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
H) ROOM SIZE Nos. 302 & 303 (CONFERENCE ROOM)		
H-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
H-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
H-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
H-4	Paint & putty	Providing and applying on walls, premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent
H-5	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
H-6	Carpet Tile on Floor	Providing and Laying of Carpet Tile (of colour and pattern as per design by architect) in flooring over a bed of manufacturer's approved adhesive spread evenly over the entire floor. The rate shall include cutting, trimming, fixing and clearing away of residual material to a location as directed. The rate shall also include supplying and laying of a protective layer of PVC or HDPE sheet of 50 microns thickness Layer, held together with tape. Specifications of Carpet tiles shall be as follows: Size : 250mm x 1000mm Yarn Weight : 17 oz/Yd2 (580 GSM) Yarn/ Fiber : 100% Nylon 6 / 6,6 Color System : 100% Solution Dyed Nylon Pile Height Average : 4.0 - 2.5 mm (±0.5 mm) Total Thickness : 6.5mm ± 0.5mm Area of use : Commercial – Heavy Duty Backing structure - Primary : PVC with Fibreglass Electro Static Propensity : Passes AATCC-134 Installation method : Random or as specified Flammability and Safety : Passes ASTM-662 Warranty/Wear performance : 8 Years Pre-approved Model: Harrigton ETERNITY EHS1103B by Euronics. COLORS: GREY WITH BLUE. Providing and laying of Carpet tiles in skirting on walls. All specifications similar to item above.

I) RECEPTION AREA

I-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, Iron Grills, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
I-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
I-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
I-4	Paint & putty theme based	Providing and applying on walls theme based premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
I-5	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK
I-6	Carpet Tile on Floor (* Vitrified Tiles size 600x600 mm), (DSR'23: 11.41.2)	Providing and laying vitrified floor tiles & skirting in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm (DSR'23: 11.41.2)
I-7	12 mm Toughened Glass with theme based	Single Glazed 12mm Toughened Glass Partition - With Alexa 100 Frame Profiles (with glass). Supply and Fixing of Single Glazed Glass partition of 12mm Toughened Glass using dormakaba Alexa System-100 Frames to a height of maximum 4m or as per drawing.The Fixed glass to be fixed using dormakaba Alexa BP100 Profiles at Top & Bottom & Alexa SP100 at sides. The profile size to be 100x25MM to be fixed on to the floor/wall/ ceiling as per the architect design.dormakaba Alexa H Junction profile to be used at all Glass to Glass vertical joints, 90 Deg L Junction Profiles and T Junction profiles necessary as per design.In case of Glass overall panel Alexa OHP100 Overpanel Profile to be used.In case of Open glass edges EP100 End Profile to be used. The Profile shall be matt black anodized, the Profile Manufacturer to supply all the necessary clips, seals and fixing accessories for the system. All Profiles to be with 2 mm Gauge thickness Excluding 20 Micron of Anodizing. Approved Manufacturer: Profiles/Frames: dormakaba Glass : Saint Giobain/Asahi

J) ROOM No. 329,321,327,328,326,322,323

J-1	Dismantelling of partition and ceiling, Doors, Windows, etc. complete	Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, tiling, partitions, panelling, , internal doors, internal windows, Iron Grills, etc. The only items to be excluded are electronic equipment and any other equipment/ material that the CLIENT may wish to retain/ reuse. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
J-2	Repairing work (Minor Brickwork with plaster)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)
J-3	Windows closer (With Brickwork & plaster, complete)	a. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 with Cement mortar 1:6 (1 cement : 6 coarse sand) b. 12 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
J-4	Paint & putty theme based	Providing and applying on walls theme based premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including surface preparation by sanding with appropriate grade of sandpaper, filling of cracks and dents with acrylic wall putty, applying necessary coats of water based cement primer and applying minimum of two coats of paint with roller to achieve even shade and colour, all complete as per manufacturer's instructions and to the satisfaction of the engineer-in-charge. Pre-approved make - Apcolite Advance Shyne by Asian Paints or equivalent
J-5	Doors fire rated	Supply and installation of factory finished 120 Mins fire rated readymade door shutter – Halspan make complete as per manufacturers specifications as follows: 1) Fire Rating: 120 Min fire rated monolithic solid core door as per BS 476: Part 22:1987 with lippings of min. 6mm thick hardwood on applicable edges of door shutter fixed using PUR glue, radius to vertical edges, minimum lipping density = 640 kg/m³ 2) Face Laminate / wooden veneer shall be provided on both faces as per designer's requirement. 3) Frame: Hardwood Suitable frame as per recommendation of Halspan, Density >650 kg/ m³ 4) Door protection: shutter shall be protected with bubble sheet (250 GSM) protection with tape 5) Essential hardware including hinges, door closer, intumescent fire strips are included in the rate 6) Rate includes for fixing of all other hardware, fittings, etc. all complete. Drawings and details of handles and hardware are to be shared with the fire-door manufacturer at the time of placing the order and the suitable insulation medium for fixing of the hardware to conform to the required fire rating shall be provided. Pre-approved Make: Halspan core 60 mm with laminate/ veneer finish on both sides or equivalent. This item shall be considered complete when the contractor shall submit a certificate from the manufacturer than the complete door (including door frame) is installed as per manufacturer's specification and is rated for 120min fire barrier as per BS 476: Part 22:1987. Also, including 120 min Fire rated glass panel (size 300 x 300 mm) as a Vision glass and including of SS door fittings/fixtures, complete & Sizes of Door shall be as per actual requirement at site
J-6	Ceiling (DSR'23, 12.53)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
K) WASHROOM RENOVATION		
K-1	Washroom Renovation	1. Dismantling and disposal of all serviceable and unserviceable material within the area demarcated in the attached drawing. These materials include false ceiling, wall tiling, Floor tiles, partitions , doors, windows, sanitary items (toilet seat, washbasin, fittings, pipes if damaged, complete, etc. Disposal of dismantled material shall include loading, transporting, unloading to approved municipal dumping ground outside property of the CLIENT. Bidders MUST visit the premises and ascertain the items and extent of demolition and disposal.
		2. Providing and laying vitrified floor tiles & skirting in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm (DSR'23: 11.41.2)
		3. Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.
		4. Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK
		5. Providing and fixing white vitreous china extended wall mounting type water closet of size 595x385x385 mm of approved shape including providing & fixing white viterous china cistern with dual flush fittings of flushing capacity 3 liter / 6 liter (adjustable to 2 liter / 4 liter) including seat cover & cistern fittings nuts , bolts and gaskets etc complete . (Make and Model : Jaquar KUS - WHT - 35951 , Flush Plate - Jaquar JCP - CHR - 352415 , Concealed Stop Cock LYR - 38083 K , Concealed Cistern Dual Flush - Euronics ECC05NA)
		6. Providing and fixing White Viterous China Thin Rim Table Top Ractangler Wash Basin Size 525x415x140 mm with 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : (Make and Model : Jaquar JDS - WHT - 25907 N)
		7. Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 620 x 370 x 315 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. (Make and Model : Jaquar URS - WHT - 132530 , Urinal Sensor - Euronics EU 40 E)
		9. Providing and fixing Single Lever Wash Basin Mixer Automatic Tap cum Auto Soap Dispenser 2 in 1 with thermostat mixer valve cutting and making good the walls wherever require : (Make and Model : Euronics KSDT7W & Euronics HCT02)

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
		10. Providing and fixing CP brass 32 mm size Bottle trap of approved quality and make and as per the direction of Engineer in charge . (Make and Model : Jaquar ALD 769L 250 x 190) 11. Providing and fixing health faucet CP flexible hose 1000 mm nozzles and swivel hook with CP brass wall flange and CP holder including cutting & making good the walls wherever required complete in all respect as per direction of engineer in charge . (Make and Model : Euronics EHF 01) 12. Providing and fixing 15 mm dia C.P. brass angle valve for health faucet , wash basin mixer and geyser points with CP wall flange including cutting and making good the walls wherever required complete in all respect as per direction of engineer in charge . (Make and Model : Jaquar LYR 38053) 13. Providing and fixing Toilet Paper Holder with Mobile Holder CP wall flange including cutting and making good the walls wherever required complete in all respect as per direction of engineer in charge . (Make and Model : Euronics EPH07P) 14. Providing and fixing Paper Towel Dispenser Stainless Steel cover plate Size 325 mm H x 325 mm W x 150 mm D CP wall flange including cutting and making good the walls wherever required complete in all respect as per direction of engineer in charge . (Make and Model : Euronics PLUTO PPD 201) 15. Providing & Fixing Stainless Steel type 304 towel ring 18-8 with C.P. brass round wall flanges & CP brass screws complete in all respect as per direction of engineer - in - charge . (Make and Model : Euronics ETR 05) 16. Providing and fixing of fully automatic "NO TOUCH" hand drier Stainless Steel Body suitable to operate on 220 volts, single phase 50 hz, A.C. power supply and directly plugged to power point complete. (Make and Model : Euronics PLUTO PHD 501) 17. Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal dia Pipes 18. Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade, Area of slab over 0.50 sqm 19. Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape . Size shall be actual requirement & instruction as per Engineer-in-charge.

Annexure-II: Technical Specifications

Sr. No.	Description	Remarks
K-2	Fire rated door for roof area	Supply and installation of factory finished 120 Mins fire rated readymade door shutter – Halspan make complete as per manufacturers specifications as follows: 1) Fire Rating: 120 Min fire rated monolithic solid core door as per BS 476: Part 22:1987 with lippings of min. 6mm thick hardwood on applicable edges of door shutter fixed using PUR glue, radius to vertical edges, minimum lipping density = 640 kg/m³ 2) Face Laminate / wooden veneer shall be provided on both faces as per designer's requirement. 3) Frame: Hardwood Suitable frame as per recommendation of Halspan, Density >650 kg/ m³ 4) Door protection: shutter shall be protected with bubble sheet (250 GSM) protection with tape 5) Essential hardware including hinges, door closer, intumescent fire strips are included in the rate 6) Rate includes for fixing of all other hardware, fittings, etc. all complete. Drawings and details of handles and hardware are to be shared with the fire-door manufacturer at the time of placing the order and the suitable insulation medium for fixing of the hardware to conform to the required fire rating shall be provided. Pre-approved Make: Halspan core 60 mm with laminate/ veneer finish on both sides or equivalent. This item shall be considered complete when the contractor shall submit a certificate from the manufacturer than the complete door (including door frame) is installed as per manufacturer's specification and is rated for 120min fire barrier as per BS 476: Part 22:1987. Also, including 120 min Fire rated glass panel (size 300 x 300 mm) as a Vision glass and including of SS door fittings/fixtures, complete & Sizes of Door shall be as per actual requirement at site.