

NAME OF WORK : CONSTRUCTION OF STUDY HALL BUILDING AT DHRANGADHRA DIST.SURENDRANAGAR			
INDEX OF SPECIFICATION			
Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
1	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i)R.C.C. work	cum	Seprate Specification Sheet attached
2	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	cum	Seprate Specification Sheet attached
3	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	Sqm	Seprate Specification Sheet attached
4	Dismantling of sheet roofing including ridges, Hips, Valleys, Gutters etc. stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(i) Polycarbonate fabric sheet roofing.	Sqm	Seprate Specification Sheet attached
5	Dismantling steel work including distempering and stacking the materials with all lead and lift.	Kg	Seprate Specification Sheet attached
6	Removing old paint / colour from walls (interior and exterior) by hand scraping, using scrapers, wire brushes, sandpaper, or other approved manual tools, including cleaning the surface, removing loose, flaking, or peeling paint, and disposing of scrapings outside the premises, complete as per directions of Engineer-in-Charge.	Sqm	Seprate Specification Sheet attached
7	Clearing and grubbing road land including uprooting rank vegetation grass bushes,shrubs,sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle	Hec	Seprate Specification Sheet attached
8	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cum	Seprate Specification Sheet attached
9	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cum	Seprate Specification Sheet attached
10	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. In layers not exceeding 20 cm. in depth consolidating each deposited layer by ramming and watering.	Cum	Seprate Specification Sheet attached
11	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	Cum	Seprate Specification Sheet attached
12	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete	Cum	Seprate Specification Sheet attached
13	Applying general insecticide pest control treatment to floors, cupboards etc including labour materials etc. complete. Using Imidacloprid 30.5 SCas Per IS 6313 part -II(0.075% concentration by mass) is recommended 10.5ml chemical diluted with 5 liters of water application 0.5 litre chemical /Sqm of surface is recommended as per I.S. (The Product Performance Shall Carry Guarantee for 5 Years)	Sqm	Seprate Specification Sheet attached
14	P.C.C : Providing and laying cement concrete 1:2:4 (1-Cement : 2- Coarse sand : 4-graded stone aggregates 20 mm nominal size) and curing complete including cost of formwork in (A) Foundation and Plinth	Cum	Seprate Specification Sheet attached
15	Providing and laying controlled cement concrete M.250 concrete With all lead, including all transportation, pumping, pouring, curing of concrete etc complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in M300 all RCC element like foundation, (A) Footing, at all floor level from below plinth and above plinth level	Cum	Seprate Specification Sheet attached
16	Providing and laying controlled cement concrete M.250 concrete With all lead, including all transportation, pumping, pouring, curing of concrete etc complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in M250 all RCC element lik, © <u>Slabs</u> , landing, shelves, Balconies, Girders and Cantilever all floor level.	Cum	Seprate Specification Sheet attached
17	Providing and laying controlled cement concrete M.250 concrete With all lead, including all transportation, pumping, pouring, curing of concrete etc complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in M250 all RCC element lik © <u>Slabs</u> , landing, shelves, Balconies, Lintels, <u>Beams</u> , Girders and Cantilever all floor level.	Cum	Seprate Specification Sheet attached

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18	Providing and laying controlled cement concrete M.250 concrete With all lead, including all transportation, pumping, pouring, curing of concrete etc complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in M250 all RCC element lik © Landing, Stair case, Lintels, Copping , Beams, Girders, shelves, Balconies, and Cantilever all floor level.	Cum	Seprate Specification Sheet attached
19	Providing and laying controlled cement concrete M.250 concrete With all lead, including all transportation, pumping, pouring, curing of concrete etc complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in M250 all RCC element lik (D) Columns , Pillars posts and struts, all floor level.	Cum	Seprate Specification Sheet attached
20	GRADE SLAB (M200) : Providing and laying controlled cement concrete M.200 Concrete with all lead, including all transportation, pumping, pouring, curing of concrete etc complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in M200 Grade Slab	Cum	Seprate Specification Sheet attached
21	Constructing Under Ground water tank with Providing and laying controlled cement concrete M250 mix for R.C.C. work including reinforcement, boxing, centering, vibrating, curing and mixed with approved water proofing cement compound or "CEMWET" or "PIDICRETE LW" integral water proofing admixture as water proofing agent to be mixed with 50 kgs. bags shall be as recommended by the manufacture of the water proofing material, concrete work for top, bottom slab & side pardi, column, beam for under ground water tank item incl. 300mm Free Board and Necessary excavation & refilling the available earth, raft thickness 250mm & wall thickness 230mm ., Sunctipn Pit size 600mmX600mmX600mm water proofing cement plaster 20mm thick Double Coat with smooth finishing & Glazes tile Dedo, vata 10cm X 10cm , 50mm thick cement concrete flooring watering etc. Comp. to all face of tank. including locking arrangement outlet, inlet, overflow and washout outlet pipe arrangement as necessary & C.I. Cover 0.60 x 0.45 weight not less then 35 kg with locking arrerngment.C.I. steps etc. comp as per structural detail drawing Including thermo Mechanically treated bars (TMT BARS) Fe 500/500D as directed by Eng-in-charge.) 75,000 LITER CAPACITY. (50 KI Fire Tank & 25 KI UGWT)	Litr	Seprate Specification Sheet attached
22	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete. upto floor two level	Kg	Seprate Specification Sheet attached
23	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth, in Cement Mortar 1:6 (1-Cement : 6 -fine sand) (B) Conventional	Cum	Seprate Specification Sheet attached
24	White Stone Bela mesonry block in course in superstructure with stone of approved quality in Lime Mortar 1:6 (1-Cement : 6- course sand) including with precast concrete block in superstrucue above plinth upto floor two level. packing the joints etc. complete. (4680.24+265.65 = 4945.89)	Cum	Seprate Specification Sheet attached
25	White Stone Bela mesonry work in partition walls upto 15 cm thickness in cement Mortar 1:4 (1- Cement : 4- course sand). in foundation, plinth and superstructure	Sqm	Seprate Specification Sheet attached
26	Providing 10mm thick cement plaster in single coat on brick/concrete walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand), interior plastering above floor two level for every additional storey height. all type of scaffolding , tools, tackles etc complete. (For all floor) (137.34 + 24.57 = 161.91)	Sqm	Seprate Specification Sheet attached
27	Providing 20 mm thick double coat mala cement plaster on interior and external brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including all level, scaffolding, curing, tools, tackles etc complete. (For all floor)	Sqm	Seprate Specification Sheet attached
28	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interiorplastering upto floor two level and finished even and smooth in (iii) Cement mortar 1:6 (1-cement:6-sand)	Sqm	Seprate Specification Sheet attached
29	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (iii) Cement mortar 1:6 (1-cement:6-sand) plastering on ceilings and soffits of stairs upto floor two level instead of plastering on walls. all type of scaffolding , tools, tackles etc complete. (For all floor) (141.60+20.64= 162.24)	Sqm	Seprate Specification Sheet attached

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30	Providing and fixing G.I. hexagonal chickenmesh of size 16 x24 of 22 gauge at junction of concrete and brick work or between different materials after making "V" groove between two different material surface and filled with rich cement mortar and @ 100mm on each side of surfaces including necessary "U" nails / screws / washers with cleats for fixing, overlaps, scaffolding at all floors / all levels / all heights / all shapes etc. complete as per drawing / specifications and direction of Engineer-in-charge. For civil, plumbing, electrical & infrastructure works.	Sqm	Seprate Specification Sheet attached
31	Providing and applying external finish of average 2 to 2.5mm thick acrylic polymer based texture and pattern with standard tool and applicator as specified by manufacturer on exterior surfaces at all heights including scaffolding to give even shades including thoroughly brushing the surfaces free from mortar dropping and other foreign matter and sand paper smoothed etc. complete as per the manufacture specifications and up to the satisfaction of Engineer in-charge/ Architect. The rate includes making of grooves, pattas and finishing as directed by Architect/ EIC. Paint shall be measured and paid in seperate tender item. (Item should be executed by approved applicator only.)	Sqm	Seprate Specification Sheet attached
32	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45, 1.20 and 1.45 Kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS : 1322 (Hessian based self finished bitumen felt) , sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per sqm including preparation of surface but excluding grading, complete.(The Product Performance Shall Carry Guarantee for 5 Years Against Any Leakage)	Sqm	Seprate Specification Sheet attached
33	Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid etc. as directed.(The Product Performance Shall Carry Guarantee for 5 Years Against Any Leakage)	Sqm	Seprate Specification Sheet attached
34	Vitrified Flooring (Type-01) : P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit	Sqm	Seprate Specification Sheet attached
35	Vitrified Flooring (Type-01) : Providing and laying Vitrified tiles 8 to 10 mm thick , in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry	Sqm	Seprate Specification Sheet attached
36	Providing and applying Tactile Polyurethane (PU) Flooring system of approved shade and design over the existing finished surface, including surface preparation, cleaning, grinding, and removal of dust, oil, or loose particles. The system shall comprise application of primer coat, base coat, and tactile PU topcoat with anti-slip finish to form tactile indicators (warning and directional tiles) for visually impaired persons, as per approved pattern and sample. Work includes all necessary surface levelling, repairing of undulations, masking, layout marking, and application using manufacturer's recommended tools and techniques to achieve a seamless, uniform, and durable tactile flooring.	Sqm	Seprate Specification Sheet attached
37	Providing and laying Granite slab (16 to 18 mm thick) one side polished flooring over 20 mm (average) base of cement mortar 1:6 (1 cement : 6 coarse sand) or L.M. 1:1.5 laid and jointed with grey cement slurry including rubbing & polishing complete, for all floors.	Sqm	Seprate Specification Sheet attached

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38	Providing and laying 16 to 18 mm thick polished Granite stone slab machine cut in single piece in risers of steps, dado, pillar, sill and jambs or dado laid on 10 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) laid over and jointed with grey cement slurry incl. rubbing and polishing etc complete. The rate includes loading, unloading, scaffolding, wastage, making hole, cutting/ chasing, rounding champhering, edge polishing of edges. The work shall be carried out as per the approval of architect and engineer-in-charge. for all floors	Sqm	Seprate Specification Sheet attached
39	Vitrified Flooring (Type-02) : Providing and laying Lapato / Glossy/Matt/Rustic finish Vitrified tiles flooring using minimum 10 mm thick tiles as per approved make list or selected by Architect , tile size (1200 mm X 600 mm, 900 x 900, 600x600) including preparing base for leveling with 20mm thick cement mortar 1:6 (1 cement : 6 coarse sand) and jointed with 3mm thick laticecrete grouting of approved shade and colour in proper line and level as per detailed drawing / instruction and approval by architect. The rate shall be inclusive of protecting the flooring by plaster of Paris and plastic and/or bubble top sheets. (At all floor area)	Sqm	Seprate Specification Sheet attached
40	Tile (Type-02) : Providing and laying Lapato /Glossy finish vitrified tiles in skirting using minimum 10 mm thick vitrified tiles of approved make list or as selected by Architect of premium quality fixed in skirting on 10 mm thick Cement plaster 1:3 (1 cement : 3 coarse sand) and jointed with 3 mm thick-min. 75 mm height laticecrete grouting of approved shade and colour in proper line and level for average 125 mm height as per detailed drawing /instruction and approval by architect. (At all floor area)	sqm	Seprate Specification Sheet attached
41	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete.	Sqm	Seprate Specification Sheet attached
42	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty : 1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick	Sqm	Seprate Specification Sheet attached
43	Providing and laying polished kota stone slab 25mm thick in risers of steps, skirting Dado and pillars laid on 10mm thick cement mortar 1:3 (1- Cement : 3 coarse sand) and jointed with gray cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete.	sqm	Seprate Specification Sheet attached
44	Kerb Stone : Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length, 30cm height and 15cm thick of M250 grade concrete as per approved design and including excavation for fixing in proper line and level, filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.	Rmt	Seprate Specification Sheet attached
45	Basin Counter/Granite Platform (All Floor : Width - 600 mm) : Providing and constructing approved shade and sample of Mirror finish granite platform , 600mm width 25 mm thick Machine polished kotah stone as vertical supports at sides, including cutting granite & kotah as per required shape , dado 1'6" ht & size to fit kitchen sink, moulding, tiles adhesive nosing, chamfered front edges, fixing, disposal of debris etc complete with all labour and materials and as per detailed drawings / architects instruction and approval by Engineer-in-charge. The sample mock shall be approved from EIC.	Sqm	Seprate Specification Sheet attached
46	Urinal partition : Providing & laying 16 to 18 mm thick both side mirror polished granite of approved shade and quality, selected and sorted for uniform color for urinal partition/ division plate as per design and in required sizes and shapes after chasing /cutting of dado with cutter machine fixing shall be carried out in white cement sand mortar (1:1) with matching pigment and/ or necessary adhesive. (Only finished granite work shall be measured). All expose edges shall be champhered and polished. The rate includes making hole, cutting/ chasing, rounding champhering, edge polishing of edges. The work shall be carried out as per the approval of architect and engineer-in-charge.	Sqm	Seprate Specification Sheet attached

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47	False ceiling : Providing and fixing eco-friendly light weight calcium silicate false ceiling tiles having Tegular edge & 15 mm Thick Densified edges on the Tile Periphery for Extra Strength The Light weight calcium silicate ceiling tiles shall have , light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity 0.043° w/m KC. for the best thermal Insulation . The Light weight calcium Silicate tile shall be of approved texture Fine fissured/Spintone/Cosmos having NRC value of 0.5 & Globe having NRC value of 0.75 NRC or equivalent of size 595 X 595 mm to be laid on true horizontal level suspended inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along spaced between main 'T' at 600mm centre to centre to form a grid of 1200X600mm and secondary cross 'T' of length 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the	Sqm	Seprate Specification Sheet attached
	wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25X35X1.6mm fixed to ceiling with 12.5mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanized steel level clips of size 85X30X0.8mm, spaced at 1200mm centre to centre long main 'T' bottom exposed with 24mm of all T-sections shall be prepainted 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 tiles shall have NRC. Value of 0.50 (Minimum) for Fine fissured/Spintone/Cosmos and 0.75 NRC for Globe, light reflection 85% noncombustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity. 0.043° w/m KC. for the best thermal Insulation		Seprate Specification Sheet attached
48	Providing and fixing in position collapsible steel shutters with vertical channels 20 x 10 x 2 mm braced with flat iron diagonals 20 x 5 mm size with top and bottom rails of T_rin 40x 40 x 6 mm with 38mm dia, steel pulleys complete with bolts, nuts, locking arrangements, stoppers handles including applying a priming coat of red lead paint.	Qnt.	Seprate Specification Sheet attached
49	Flush Door With WPC frame (37 MM) : Providing and fixing in position 35mm thick solid core wooden flush doors of approved make having fire retardant ply facing on both sides and finished with 1 mm thick laminate as approved , WPC frame size - 125 X 63 MM Well Quality Hardware system of Hinges , Boxer type door closer , Door handle , Euro profile , lock ,Door stop . work complete including all type of hardware, fittings , fixtures etc complete as per detailed drawings and specifications, sample mock shall be approved from EIC.	Sqm	Seprate Specification Sheet attached
50	Flush Door with frame and finish with 1mm thick Laminate (37MM): Providing and fixing in position 35 mm thick solid core wooden flush doors of approved make having fire retardant ply facing on both sides and finished with 1mm thick laminate as approved , Indian Teak Wood Frame size - 125 X 75 MM, Single rebet , Well Quality Hardware system of Hinges , Boxer type door closer , Door handle , Euro profile , lock ,Door stop . work complete including all type of hardware, fittings , fixtures etc complete as per detailed drawings and specifications, sample mock shall be approved from EIC.	Sqm	Seprate Specification Sheet attached
51	Double Leaf Flush Door with frame and finish with 1mm thick Laminate (37MM): Providing and fixing in position 35 mm thick solid core wooden flush doors of approved make having fire retardant ply facing on both sides and finished with 1mm thick laminate as approved , Indian Teak Wood frame size - 250 X 75 MM double rebet , Well Quality Hardware system of Hinges , Boxer type door closer , Door handle , Euro profile , lock ,Door stop . work complete including all type of hardware, fittings , fixtures etc complete as per detailed drawings and specifications, sample mock shall be approved from EIC.	Sqm	Seprate Specification Sheet attached

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52	Window : Providing and fixing factory made upvc fenesta wooden colour sliding glazed window with Mosquito net and Approved sample by Architect/Client/EIC. all height dimension comprising of upvc multi chambered frame with in built roller track and sash extruded profiles duly reinforced with 1.60 + 0.2 mm thick galvanizd mild steel section made from roll forming process of required lenght (shape & size according to upvc profile), appropriate dimension of upvc extruded glazing beads and upvc extruded interlocks, epdm gasket,wool pile,zinc alloy (white powder coated) touch locks with hook,zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg),g.i. fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. profile of frame & sash shall be mitred cut and fusion welded at all corners,including drilling of holes for fixing hardware's and drainage of water etc. after fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality,all complete as per approved drawing & direction of engineer-in-charge. Three track Three panels sliding window of 5 mm thick toughen glass and series 2000 frame	Smt	Seprate Specification Sheet attached
53	Providing and fixing S.S. bird net jali (Invisible Grill)- using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete With Aluminium equal angle frame or 12 mm mild steel U beading work at required opening and at any height with all labour & material etc. complete. and fitting with necessary nuts, bolts, machine screws etc fixing i/c fixing with necessary accessories and dash / Anchor fasteners of required size. on the top of floors, concretes, wood, walls, sides of slab with suitable arrangements. etc complete for all floors and at all levels	Sqm	Seprate Specification Sheet attached
54	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm (Jindal Section:2434, @ Wt. 0.643 Kg/mt) with colour Powder Coated alluminium frame for ventilation with 5mm thick frosted glass as details etc complete for Ventilation. All Level	Sqm	Seprate Specification Sheet attached
55	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacings and frame alround, square or round bars with round headed bolts and nuts or by screws (A) Plain Grill.	Kg	Seprate Specification Sheet attached
56	Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	Sqm	Seprate Specification Sheet attached
57	Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	Sqm	Seprate Specification Sheet attached
58	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials. etc complete	Sqm	Seprate Specification Sheet attached
59	Applying priming coat over new steel and other metel surface after and including preparing the surface by throughly cleaning, oil, grease, dirt and other foreign matter and scoured with brushes fine steel wood, scrapers and sand paper with ready mixed priming paint brushing red lead.	Sqm	Seprate Specification Sheet attached
60	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel Paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter.	Sqm	Seprate Specification Sheet attached
61	Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like	Qui.	Seprate Specification Sheet attached
62	Providing and fixing 'Y' shaped barbed wire fencing on compound wall top with vertical angle of 50x50x6mmx0.50 mt. height, two cross angle 50x50x6mmx0.45mt. Length, having 3 horizontal and two diagonal rows of barbed wire (9.38 kg/100 rmt) on vertical angle and three horizontal and two diagonal barbed wire rows on each cross angle incl. cost of barbed wire, necessary GI stapplings, fixing on top of compound wall, painting angle with one coat of anticorrosive primer and two coats of enamel paint of approved qaulity, necessary scaffolding etc. complete as per the direction of the Engineer in charge.	Rmt	Seprate Specification Sheet attached

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63	Expansion Joint Edge Repairing Treatment : Repairing and profiling of the existing joints line with help of polymer modified mortar to be fixed in alignment and straight line as per the joint design width and joint design complete .	Rmt	Seprate Specification Sheet attached
64	Providing and fixing of 1.2mm thick EPDM/PVC waterbarrier membrane over the joint profile with help of special adhesive and necessary loop throughout the joint profile before fixing of the joint system to ensure water tight joints,complete.	Rmt	Seprate Specification Sheet attached
65	Horizontal Internal : Floor to Floor & wall to floor FF & WF : The work shall consist supply and installation of 3R joints and seals -expansion/seismic joint sysytem model 3R MSDSZJ /3R MSD -QZJ or as approved by client or equivalent in accordance with the contract drawings and requireements of the specifications below. The joints are proprietary design utilizing extruded aluminum base members ,self aligning / centering arrangement and support plates. The material shall be such that it provides watertight flat joint cover expansion control sysytem that is capable of accommodating multidirectional seismic movement without stress to its components.System shall consisit of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and floor/roof treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement . The joint sysytem shall	Rmt	Seprate Specification Sheet attached
66	External - vertical : The work shall consist supply and installation of 3R Joints and seals - expansion/seismic joint sysytem model 3R MSNGZ/3REM or equivalent as approved in accordance with the contract drawings and requirements of the specifcations below. The joints are proprietary design utillizing extruded elastomeric seals and aluminum base members. The material shall be such that it provides an Expansion Joints System suitable for Vertical wall to wall flat application,both new and existing construction in structure & complexes with no slipping down tendency amongst the components of the Joint Sysytem. the Joint sysytem shall utilize lightweight aluminum profiles exhibiting required exposed aluminum surface mechanically snap locking to facilitate joint movement throughout the normal movement cycle,the sysytem shall demonstrate the movement ability to remain flat at all times and provide a flush transition to maintain the asthetic look between opposing and adjacent finish construction. Providing and fixing of 3R EM / 3R MSNG system designed for exterior wall finishes with expansion movement of +/- 25mm design for external application on wall to wall /wall to corner where exposed metal plate is desired as per the joint design and design width over the joint profile as per the joint	Rmt	Seprate Specification Sheet attached
67	Internal - vertical : The work shall consist supply and installation of 3R Joints and seals - expansion/seismic joint sysytem model 3R MSNSK /QSK or equivalent as approved in accordance with the contract drawings and requirements of the specifcations below. The joints are proprietary design utillizing extruded elastomeric seals and aluminum base members. The material shall be such that it provides an Expansion Joints System suitable for Vertical wall to wall flat application,both new and existing construction in structure & complexes with no slipping down tendency amongst the components of the Joint Sysytem. the Joint sysytem shall utilize lightweight aluminum profiles exhibiting required exposed aluminum surface mechanically snap locking to facilitate joint movement throughout the normal movement cycle,the sysytem shall demonstrate the movement ability to remain flat at all times and provide a flush transition to maintain the asthetic look between opposing and adjacent finish construction. Providing and fixing of 3R MSNSK/ 3R IL2 system designed for interior wall finishes with expansion movement of design for internal application on wall to wall /wall to corner where concealed /flush metal plate is desired as per the joint design and design width over the joint profile as per the joint manufacturer	Rmt	Seprate Specification Sheet attached
68	Providing in position PVC pipe sleeves of 6Kg/cm2 and length as per design for following diameters for services wherever pipes pass through walls/ slabs/ beam in mtrs length. All pipes shall be accurately cut to the required sizes, laid as per drawing, kept in the position while concreting, and burrs removed before laying. Open ends of the pipe shall be closed as the pipe is installed to avoid clogging while concreting. Rate shall be inclusive of removal of sleeves before water proofing or grouting. For all floors / all levels / all heights. (a) 50mm Diameter	Rmt	Seprate Specification Sheet attached

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69	Providing in position PVC pipe sleeves of 6Kg/cm2 and length as per design for following diameters for services wherever pipes pass through walls/ slabs/ beam in mtrs length. All pipes shall be accurately cut to the required sizes, laid as per drawing, kept in the position while concreting, and burrs removed before laying. Open ends of the pipe shall be closed as the pipe is installed to avoid clogging while concreting. Rate shall be inclusive of removal of sleeves before water proofing or grouting. For all floors / all levels / all heights. (a) 75mm Diameter	Rmt	Seprate Specification Sheet attached
70	Providing in position PVC pipe sleeves of 6Kg/cm2 and length as per design for following diameters for services wherever pipes pass through walls/ slabs/ beam in mtrs length. All pipes shall be accurately cut to the required sizes, laid as per drawing, kept in the position while concreting, and burrs removed before laying. Open ends of the pipe shall be closed as the pipe is installed to avoid clogging while concreting. Rate shall be inclusive of removal of sleeves before water proofing or grouting. For all floors / all levels / all heights. (a) 110mm Diameter	Rmt	Seprate Specification Sheet attached
71	Providing in position PVC pipe sleeves of 6Kg/cm2 and length as per design for following diameters for services wherever pipes pass through walls/ slabs/ beam in mtrs length. All pipes shall be accurately cut to the required sizes, laid as per drawing, kept in the position while concreting, and burrs removed before laying. Open ends of the pipe shall be closed as the pipe is installed to avoid clogging while concreting. Rate shall be inclusive of removal of sleeves before water proofing or grouting. For all floors / all levels / all heights. (a) 160mm Diameter	Rmt	Seprate Specification Sheet attached
72	Core cutting : Providing and wet drilling accurate and clean holes of specified diameter in RCC walls, slabs, beam or any other RCC member without vibration by core cutting (diamond drilling) machine including scaffolding, safety majors, disposing the debris, cleaning for all levels/ all height as per structural consultant's drawing, after approval of engineer in charge etc compete. Rate shall be inclusive of filling the hole with non shrink grout/Chemical Anchoring in good manner. Measurement shall be taken for the depth of holes in running meter for specified diameter. Holes shall made by authorised approved agency. (a) holes from 100 dia.	Nos	Seprate Specification Sheet attached
73	Core cutting : Providing and wet drilling accurate and clean holes of specified diameter in RCC walls, slabs, beam or any other RCC member without vibration by core cutting (diamond drilling) machine including scaffolding, safety majors, disposing the debris, cleaning for all levels/ all height as per structural consultant's drawing, after approval of engineer in charge etc compete. Rate shall be inclusive of filling the hole with non shrink grout//Chemical Anchoring in good manner. Measurement shall be taken for the depth of holes in running meter for specified diameter. Holes shall made by authorised approved agency. (b) holes from 150 dia.	Nos	Seprate Specification Sheet attached
74	Providing and fixing anchor fastener system chemical based of Hilti or equivalent make for connections in concrete as per design and drawings and/or as directed by engineer in charge. (Rate shall include cost of bolts, labour, all material including chemical cartridge (wherever required). T & P for power drilling, cleaning the drilled holes of loose dust by blowing air, insertion of chemical from cartridge with plastic nozzles as may be required, placing internally threaded sleeve, driving of bolts, 2 nos-4 mm thick (hot dip galvanized coated) washer, fastening screw and tightening with nuts and check nuts etc may be required. Work complete including all type of tools , tackles, scaffolding etc complete at any level and height. work complete as per the instruction of EIC/Client/Architect. 12 mm dia.	Nos	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
75	Providing and fixing anchor fastener system chemical based of Hilti or equivalent make for connections in concrete as per design and drawings and/or as directed by engineer in charge. (Rate shall include cost of bolts, labour, all material including chemical cartridge (wherever required). T & P for power drilling, cleaning the drilled holes of loose dust by blowing air, insertion of chemical from cartridge with plastic nozzles as may be required, placing internally threaded sleeve, driving of bolts, 2 nos-4 mm thick (hot dip galvanized coated) washer, fastening screw and tightening with nuts and check nuts etc may be required. Work complete including all type of tools , tackles, scaffolding etc complete at any level and height. work complete as per the instruction of EIC/Client/Architect. 16 mm dia.	Nos	Seprate Specification Sheet attached
76	Providing and fixing anchor fastener system chemical based of Hilti or equivalent make for connections in concrete as per design and drawings and/or as directed by engineer in charge. (Rate shall include cost of bolts, labour, all material including chemical cartridge (wherever required). T & P for power drilling, cleaning the drilled holes of loose dust by blowing air, insertion of chemical from cartridge with plastic nozzles as may be required, placing internally threaded sleeve, driving of bolts, 2 nos-4 mm thick (hot dip galvanized coated) washer, fastening screw and tightening with nuts and check nuts etc may be required. Work complete including all type of tools , tackles, scaffolding etc complete at any level and height. work complete as per the instruction of EIC/Client/Architect. 20mm dia.	Nos	Seprate Specification Sheet attached
77	SS RAILING : Providing & Fixing Stainless steel 304 grade pipe railing Horizontal 50 mm dia. 2 Nos. and Supprt pipe from wall 16mm Dia. at everymax 0.90mtr C/C including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts, Plates and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., fixed on Concrete or brick work . Rate including of all materials.labour, fixing & polishing etc. comp. as per Drawing and Approve by Engineer In Charge	Rmt	Seprate Specification Sheet attached
78	SS RAILING : Providing and fixing stainless steel (Grade 304) railing Horizontal top pipe of 50mm dia., verticle Sq pipe 32X32 mm 900 mm c/c and 16 mm Dia. 3 Nos. Horizontal Pipe equval Spacing Hollow Pipes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts, Plates and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered including fixing accessories such as nuts, bolts, fasteners etc.). as per Drawing and Approve by Engineer In Charge	Rmt	Seprate Specification Sheet attached
79	Roller blind : Providing and fixing of approved quality roller blinds using phifer or equivalent fabric of premium grade, with roller tube, bottom bar leveller made of extruded aluminium alloy an Idler, Insert Type- Brackets, PVC chain etc. all complete at all floor and heights as per approved specification. Roller Tube Control, Clutch, Idler Side by side or single Roller Tube of extruded Aluminium 38mm inner dia - 41mm outer dia minimum wall thickness of 1.6mm. Roller blind - roller blind fabric should be made up of 35% FibreGlass, 65% PVC, it should have specific low emissivity treatment and lead free with Greenguard gold certification. It should have 3% to 5% openness, fabric thickness should be 0.43 mm, mesh weight approx 400 gms/ sqmtr. It should cut UV rays, with antimicrobial properties preferably with Microban. The fabirc should be Flame retardant and Lead Free. It should be GreenGuard certified with Gold Standard for low chemical emissions for indoor use. including all accessories, material, labour, installation etc..and complete the work satisfactorily as per instruction of architect or Engineer-in charge	Sqm	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
80	Ply palmet work : Providing and fixing wooden pelmets of upto 150mm/950 mm x 150 to 600 mm L shape made of 19mm thick ply as per IS 710 MR Grade and beading of 1.0 mm thick Laminate for curtains/ blinds/ projection screen of openings. Rate to be inclusive of lipping, cutting, wastages, necessary fixtures, nails, adhesives, necessary scaffolding, fixing at all heights and for all floors as per drawing and approved sample etc finish with veneer semi gloss PU finish. (Mode of Measurements: Only the palmet length shall be measured & paid for the items in which palmet work is not inclusive in item description)	Rmt	Seprate Specification Sheet attached
81	Soft Board : Providing and fixing on wall 12mm thick approved quality soft board with cotton cloth/fabric of approved make and shade on 12mm thick IS 710 MR Grade ply with 19mm x 25 mm thick Ghana teak wood beading all around including semi glossy PU polish, as approved sample and as directed by Architect. The work shall be measured & paid in Sqm. for all floors, all level and at all heights including all costs, The rate shall be inclusive of lacquer polish to all the exposed wooden members. Only the clear elevation area of the cloth/fabric shall be measured and paid.	Sqm	Seprate Specification Sheet attached
82	GRC WORK : Providing & fixing architectural moldings profiles and other decorative elements made out of GRC (Glass Fibre reinforced Cement) in required shape, size & thickness all as per manufacturers specifications, such as all decorative articles should be made by using high power spray machine, using AR Glass fiber with minimum ZrO2 16% including necessary scaffoldings for all heights, as per approved drawings and reference images. GRC elements thickness shall be 12-15 mm. fixing edges will be 40 TO 50 MM GRC Elements shall be fixed on RCC Structure/Brick Work/ Primary Steel Structure (MS with protective coat of Red oxide/Zinc Primer Shall be Used). Hilti make GI Screw Fastners or equivalent, GI Thread Rods and MS cleats shall be used for fixing of GRC elements on RCC/MS Primary fabricated structure. Joints shall be filled with PU sealants/ base material of GRC as and where required. The quote rate shall be inclusive of all design, & shop drawing and sample mock of all elements approval from Architect & consultant. Rate shall be inclusive of all required fabrication work for fixing only primary strcure shall be provided as base structre only as per requirement. Mode and method of measurement shall be in accordance with IS: 1200.a) GRC JALI-As	Sqm	Seprate Specification Sheet attached
83	Convex Mirror is a curved mirror : Providing and supplying Convex Mirror as per references image, detail and approved sample by Architect/EIC. The Convex Safety Mirror is structured with a polycarbonated front and acrylic back which makes it lighter and easy to place on any exterior. It also looks like a bubble mirror that has a curvature of the 130-degree view. The Convex Mirror comes with a protective film coating that makes the traffic mirror scratch-resistant, break-resistant, and tear-proof. The Polycarbonate Lens reflects a crystal clear and bright image of the view which can be seen from a long distance. It also magnifies the opposite fronts that help the drivers to locate small things clearly. The contractor shall Convex Mirror with Installation Kit, Nuts & Bolts Included support, Location, any Height and all complet installation work as per site condition. This Item includes cost of all labour, transfort etc. as required for completing the work in all respects. All works are carried as per approval and instructions of the architect. Rate shall inclusive of sample, all materials, loading, unloading, all taxes, transportation, placing at all floors and for all leads, all accessories as described in item description.	Each	Seprate Specification Sheet attached
84	Direct Bought Out Item : Providing and placing in position SS brush finish (12 LTS PEDAL BIN/ STEP BIN -) of Kich , Dorma ,etc Square Pedal bin 10x15 Stainless Steel Dustbin or Equivalent as per images and as selected by the Architect.	Nos	Seprate Specification Sheet attached
85	Providing and supplying of Dustbin of Approved Brand Sintex or equivalent of 40-50 Liters capacity.	Nos	Seprate Specification Sheet attached
86	Providing and fixing in position Duel (2 No) of Dustbin for wet and dry garbage, of suggested size, material (corrosion resistance), finish (PU painted/ polyester powder coated), with logo of client and type/ function of dustbin and as per sample approved by Architect. The rate shall be for duel dustbin or two seprate dustbin (min 40 Lit each capacity) as per selection. Rate shall be inclusive of fixing of dustbin with all required civil work, anchor fastners of approved make and required capacity and making good.	Set of duel (2 No) dustbin	Seprate Specification Sheet attached
87	Providing and fixing Wall art/Photoframes of size 2ftx2ft with wooden frame of size 2in x 1in consisting 6mm thick ply in back with digital vinyl printing and 5mm thick glass on top if required.	Nos	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
88	Natural Plant : Providing and planting of natural plants, healthy, well-grown, and free from diseases, of approved species and variety, by Architect. Item includes cost of all labour, transport etc. including supply, transportation, handling, excavation of pits, planting with good quality garden soil and manure, watering, staking, and minimum plant height 10' with pvc pot , complete as directed by the Engineer-in-Charge.	Nos	Seprate Specification Sheet attached
89	Providing and fixing Sainless steel signage plate of 1.5mm thick with laser print/ etching and filled with duco paint of approved make including fixing to the wall or door with required accessories and as specified type including fixing etc complete as directed by engineer in charge	Sqm	Seprate Specification Sheet attached
90	DOOR MAT : 3M Nomad - Wiping technology - Heavy Duty 7150 - or equivalent approved make Grey Colour: Open Contruaction Loop Matting with Crush Resilient Vinyl with backing. Matting Should be durabe shouldn't Flatten ove time. Thickness Should be 13mm Min.Suitable for heavy traffic areas, where traffic is upto 4 lakh people per year. work complete as per approved sample.	Sqm	Seprate Specification Sheet attached
91	Providing & placing in position DIGITAL CLOCK - WALL MOUNTED as per architect selection Ajanta Digital Wall Clock(Brown, Black, With Glass)	Nos	Seprate Specification Sheet attached
92	Signages : Providing and fixing of the following signages using make of cosign or equivalent approved make by architect.All the detailed work out as per the detailed drawing and instruction of EIC., specifications and drawings as indicated there in to all heights and elevation including necessary scaffoldings / supports /permanant fixing with cement mortor if fixed to ground etc complete in all respects.The Signage cost should be inclusive of panels,hanging system,bridges,primary & secondary fixings,vinyl,painting,powder coating self glowing mateial as directed etc.All shop drawings and coordination with other services is in scopeof contractor.(At all floor) Size (150 x 600mm) - FACE /WALL MOUNTED NAME PLATES/SIGNAGES/INFORMATION SIGNAGES (with back lit)	Nos	Seprate Specification Sheet attached
93	Inauguration Plate : Providing & fixing inauguration plate (Takhti) made from +18 mm thick Granite with embossed/engraved text letters made from SS 304 grade of various sizes 1. The fonts and letters shall be as per the reference drawing made from SS 304 with national Emblem Logo The work shall be done as per the approved shop drawing (to be prepared by contractor), specifications, sample approved and as directed by the Architect and Engineer-in-charge. The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools & tackles,approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this.	Sqm	Seprate Specification Sheet attached
94	Providing and Fixing the S.S. 304 Letters with back light of given size as per Architect's drawings and approved sample or make (Approx Height of each letter 18 to 24 inches) along with all necessary hardwares, scaffolding, Alu/MS Back support, hanging support and accessories, The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools & tackles, for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. (Consider Letter : TALUKA LIBRARY AT DHRANGADHRA)	Each	Seprate Specification Sheet attached
95	Providing and fixing Godess Saraswati idol (Material- Fibre) 5 ft tall, with proportionately base dimenstion as per approved design by client and complete as per instruction of engineer-in charge and consultant.	Each	Seprate Specification Sheet attached
96	PLUMBING FIXTURE : Providing, fixing, jointing and testing in position of various Bathroom C.P. Fixtures with hydraulic testing complete as per design, drawing and instruction of site incharge. 25mm Dia Control Valve	Nos	Seprate Specification Sheet attached
97	Providing and fixing screw down bib taps of following size. (B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	Nos	Seprate Specification Sheet attached
98	Providing and fixing health faucet with 1 m PVC tube and swivel hook including all fittings complete.	Nos	Seprate Specification Sheet attached
99	Providing, fixing, jointing and testing in position of various Bathroom C.P. Fixtures (Angle Cock) with hydraulic testing complete as per design, drawing and instruction of site incharge. Urinal stop cock.	Nos	Seprate Specification Sheet attached

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100	Providing and fixing white glazed vitreous china wall mounting type (European type) water closet with C.P. bolts, nuts, C.I. Chair or other hanging arrangement, white solid plastic seat with lid, C.P. brass hinges and rubber buffers, Metropole flush valve regular 40mm size (concealed body) with exposed shut off provision , C.P. brass screws and washers complete, including cutting and making good the walls floors where required. Wall hung EWC matching white plastic seat with lid & CP brass hinges & CP push plate .	Nos	Seprate Specification Sheet attached
101	Providing and fixing White glazed vitreous Wash Basin Round Over-Counter, size 450 mm dia., with supporting in stone flooring, 1 no, 32 mm CP Bottle trap with extension piece to wall flange with rubber adopter for waste connection, 1.2m Flexible Pipe [1No] and waste coupling. Etc complete. Wash Basin Table Top - 420x420x155 mm	Nos	Seprate Specification Sheet attached
102	Providing & fixing in position 15 mm C.P. brass angle cock of best quality with 1.2 Rmt Long pvc Tube and accessories with necessary fittings etc. complete.	Nos	Seprate Specification Sheet attached
103	Providing & fixing in position 15 mm C.P. brass pillar cock of best quality with necessary fittings etc. complete.	Nos	Seprate Specification Sheet attached
104	Providing and fixing TOWEL RING SQUARE , as approved by the architect. Work complete including all type of fittings, etc complete as per suggestion of Architect/EIC.	Nos	Seprate Specification Sheet attached
105	Providing and fixing SOAP DISH HOLDER as approved by the architect. Work complete including all type of fittings , etc complete as per suggestion of Architect/EIC.	Nos	Seprate Specification Sheet attached
106	Supply, Installation, Testing & Commissioning vitreous matrix set (For Handicap) including matrix EWC (European type water closet) with cistern, wall hung matrix wash basin, lever arm faucet for ease of operation, centre pre-punched tap hole, grab bar with slightly lower height for added convenience & fixed to wall with brackets including cutting and making good the wall and floors as required. Colour Star White.	Nos	Seprate Specification Sheet attached
107	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I spread down or hinged grating including the cost of cutting and making good the walls.	Each	Seprate Specification Sheet attached
108	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe. (A) Squating plate pattern white earthenware 550mm x 300mm.	Each	Seprate Specification Sheet attached
109	Providing and fixing Kitchen sink with C.I. Or M.S. brackets, painted white including cutting holes in walls and making good the same but excluding fittings. (C) Vitreous China Sink.(i) 600mm x 450mm x 150mm size	Nos	Seprate Specification Sheet attached
110	Providing and fixing 600mm x 450mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wooden pluge with C.P. brass screws and washers.	Each	Seprate Specification Sheet attached
111	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	Lit	Seprate Specification Sheet attached
112	Reading Table / Work Station : Providing & fixing work station / table having ht of 750 mm Top, with MS Pipe Structure of Frame as per Architect/ Engineer Design or Selection and Back and side Ply of table is also made up of 19mm Thick. Top of Table is 19mm thk ply with laminate Finish Per Requirement and All internal & external Joints finished with teakwood beading Patti. Common or front Part of Table is Sectationized with MS Perforated Sheet. All exposed and internal surfaces covered with Laminate Finish of approved shade & Complete as per detail drawings & as instructed by Architect/consultant/ Engineer In charge. Complete with all necessary hardware like nails, ss screws, table chain, Key board tray, TDS channel, adhesives etc. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it. All ply should follow IS 710	Sqm	Seprate Specification Sheet attached
113	Supplying and providing reading chairs with PP arms with soft PU pads, Seat and back upholstered with PU cushioned and MS powder coated frame and cantilever legs. Overall dimension 590 L x 600 W x 915 H (Or as specified) complete as directed by architect and product as per given specification. Complete as per architectural design and concept and approved by Architect & Client.	Nos	Seprate Specification Sheet attached

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114	Gang Chair (3 Seater) : Providing and Fixing 3 Seater (moulded foam seat and back In PU upholstery) Pero Cross Beam made of powder coated regular MS ERW tube having 8.0+/-0.03 cm x 4.0 +/- .03 cm x 0.2 +/- 0.014 cm size. Legs to be chrom plated made of rolled steel with 0.12 +/- 0.013 cm thickness.Seat and Back Shell to be perforated made from cold rolled M.S. Sheet (DIN 1623 Part 1 ST -12 Grade), 0.14 +/- 0.013 cm thickness. The side Bar is made of chrome Plate solid steel 3.0 cm +/- 0.03cm x 1.2 cm +/- 0.03 cm with fluting and plastic inserts. The Shell to be assembled on the cross beam with help of M8 Bolts.	Nos	Seprate Specification Sheet attached
115	Supplying and Placing Folding Wheel Chair with Overall dimension: (L) 790 x (W) 600 x (H)870mm Frame structure Foldable frame structure is made of section 22x1.2mm A3 carbon steel with chrome finish. Cross bar are made of A3 carbon steel with section 25.4 x 1.2mm. Rear wheel 24 inch Solid mag wheels with alloy in the rim Hand rim Integrated hand rim provide to drive the wheel chair of section 16x1.2mm A3 carbon steel with chrome finish Front wheel 8 inch HUB made of PA polymer and outer with solid rubber Arm rest PU molded arm rest & base is made of ABS for better arm support Calf rest & seat Leatherette strap for calf rest & leatherette cushion for seat Footrest Adjustable alluminium die cast foot rest with updown & swivel type mechanism Push handle Handles are made of moulded rubber grip to push the wheelchair Brakes Hand brakes are provided to lock the wheelchair at desired location. Foot press Extended base with molded plastic for better grip Finish Anti rust chrome finish safe working load 100kg.etc.complete as per drawings and design supplied by architect and instruction given by authority and E.I.C.	Nos	Seprate Specification Sheet attached
116	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Pt.	Seprate Specification Sheet attached
117	Point wiring for secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Pt.	Seprate Specification Sheet attached
118	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	Pt.	Seprate Specification Sheet attached
119	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Pt.	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
120	<p>Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.</p> <p>[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board</p> <p>(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III</p>	Pt.	Seprate Specification Sheet attached
121	<p>Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories</p> <p>[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.</p> <p>(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III</p>	Pt.	Seprate Specification Sheet attached
122	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories. Cat-III	Pt.	Seprate Specification Sheet attached
123	<p>Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.</p> <p>(7) Blank Plate Single Cat.III</p>	Ea.	Seprate Specification Sheet attached
124	<p>Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed.</p> <p>(B)25 MM</p>	Mtr.	Seprate Specification Sheet attached
125	<p>Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size</p> <p>(A) with medium class Rigid PVC pipe and accessories</p> <p>(a) 2 wire 1.5 sq. mm</p>	Mtr.	Seprate Specification Sheet attached
126	<p>Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size</p> <p>(A) With medium class Rigid PVC pipe and accessories</p> <p>(b) 2 wire 2.5 sq. mm</p>	Mtr.	Seprate Specification Sheet attached
127	<p>providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size</p> <p>(A) with medium class Rigid PVC pipe and accessories</p> <p>(a) 2 wire 4 sq. mm</p>	Mtr.	Seprate Specification Sheet attached
128	<p>Providing and erecting decorative wall bracket fittings complete with LED lamp and rust free fittings components mounted in chrome finish housing with holder ,clear/opaque glass diffuser complete erected with lead wires with minimum 15 wattage capacity as per instruction engineer incharge/architect/authority .cat-III</p>	Ea.	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
129	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (ii) 11-15 watts, Surge-2 KV cat-III	Ea.	Seprate Specification Sheet attached
130	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 16-20 watts, Surge-2 KV cat-III	Ea.	Seprate Specification Sheet attached
131	Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos.Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM, 230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection , 50 Hz, Single phase AC Supply, earthing etc. Complete as required.[Make shall be approved by Engineer in Charge] (B) 1200 mm Sweep (48")	Ea.	Seprate Specification Sheet attached
132	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	Mtr.	Seprate Specification Sheet attached
133	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	Ea.	Seprate Specification Sheet attached
134	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	Ea.	Seprate Specification Sheet attached
135	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame.For 200mm with 1350 RPM cat-ii	Ea.	Seprate Specification Sheet attached
136	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	Ea.	Seprate Specification Sheet attached
137	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.	Ea.	Seprate Specification Sheet attached

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138	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A .with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S.housing. ICS=100% of ICU only Cat III	Ea.	Seprate Specification Sheet attached
139	Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. capacity	Rn.Mt r	Seprate Specification Sheet attached
140	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing. (2) 125 A -200 A , CT Ratio 1/200	Ea.	Seprate Specification Sheet attached
141	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III	Ea.	Seprate Specification Sheet attached
142	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp.	Ea.	Seprate Specification Sheet attached
143	Providing and erecting 415 Volt MCB four pole motor & inductive load(c Curve) having 10 KA Breaking capacity and confirms to IS : 8828 in existing metal box having following capacity. (C) 63 Amp. Cat- III	Ea.	Seprate Specification Sheet attached
144	Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp.	Ea.	Seprate Specification Sheet attached
145	Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp.	Ea.	Seprate Specification Sheet attached
146	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP Cat. III	Ea.	Seprate Specification Sheet attached
147	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (iv)12 way	Ea.	Seprate Specification Sheet attached

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148	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistance mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency.		Seprate Specification Sheet attached
	(c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. Length of Pipe : 3.00 mtrs Back filling Compound :2 nos Bags of 25 Kg.	Ea.	Seprate Specification Sheet attached
149	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of		Seprate Specification Sheet attached
	supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating.		Seprate Specification Sheet attached
	(B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory		Seprate Specification Sheet attached
	(i) with 350mm depth	Sq.Mtr	Seprate Specification Sheet attached
150	Providing and erecting ,Fabricating the box type items made from M.S. Sheet with A.I. supports, wings, doors, handles other hardware materials as per requirement design with finishing by three tank powder coating processed inside and outside painted, erected as directed including minor civil work.	Kg.	Seprate Specification Sheet attached
151	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 3 1/2 core 35 Sq. mm (16 Sq. mm 1/2 core)	Mtr.	Seprate Specification Sheet attached
152	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (D) 3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	Mtr.	Seprate Specification Sheet attached
153	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (E) 3 1/2 core 95 Sq. mm (50 Sq. mm 1/2 core)	Mtr.	Seprate Specification Sheet attached
154	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 16 Sq. mm	Mtr.	Seprate Specification Sheet attached
155	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 25 Sq. mm	Mtr.	Seprate Specification Sheet attached

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156	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cable. (B) 3 core 4 Sq. mm	Mtr.	Seprate Specification Sheet attached
157	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (B) 4 core 4 Sq. mm	Mtr.	Seprate Specification Sheet attached
158	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (C) 4 core 6 Sq. mm	Mtr.	Seprate Specification Sheet attached
159	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (A) 4 core 10 Sq. mm	Mtr.	Seprate Specification Sheet attached
160	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (A) 2 to 4 core 2.5 / 4 Sq. mm	Ea.	Seprate Specification Sheet attached
161	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 2 to 4 core 6 Sq. mm	Ea.	Seprate Specification Sheet attached
162	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 2 to 4 core 10 Sq. mm	Ea.	Seprate Specification Sheet attached
163	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (D) 2 to 4 core 16 Sq. mm	Ea.	Seprate Specification Sheet attached
164	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (E) 2 to 4 core 25 Sq. mm	Ea.	Seprate Specification Sheet attached
165	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 3 & 1/2 core 70 Sq. mm	Ea.	Seprate Specification Sheet attached
166	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (D) 3 & 1/2 core 95 Sq. mm	Ea.	Seprate Specification Sheet attached
167	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	Ea.	Seprate Specification Sheet attached
168	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (C) 16/25 Sq.mm.	Ea.	Seprate Specification Sheet attached
169	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (D) 35/50 Sq.mm.	Ea.	Seprate Specification Sheet attached
170	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (E) 70 Sq.mm.	Ea.	Seprate Specification Sheet attached

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171	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (F) 95 Sq.mm.	Ea.	Seprate Specification Sheet attached
172	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/ 2.5/4/6 Sq.mm	Ea.	Seprate Specification Sheet attached
173	Providing and erecting metallic vitrified danger notice board as per language suggested by engineer incharge for MEDIUM VOLTAGE installation to be erected as per IS-2551.	Ea.	Seprate Specification Sheet attached
174	Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551	Ea.	Seprate Specification Sheet attached
175	Providing & laying. R.C.C. Hume pipe for cable to be laid 90 cm. below ground across the road crossing or on floor with necessary material in an approved manner and making the ground as per original. (C) 300 mm dia	Mtr.	Seprate Specification Sheet attached
176	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (C)90 mm outer dia	Mtr.	Seprate Specification Sheet attached
177	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (D)120 mm outer dia.	Mtr.	Seprate Specification Sheet attached
178	Making trench in all soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	Mtr.	Seprate Specification Sheet attached
179	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	Ea.	Seprate Specification Sheet attached
180	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	Ea.	Seprate Specification Sheet attached
181	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	Ea.	Seprate Specification Sheet attached
182	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	Ea.	Seprate Specification Sheet attached
183	Supplying and erecting approved make set of indicator lamps of LED type lamp , lens cover, Bakelite holder complete erected with necessary connections.	Ea.	Seprate Specification Sheet attached
184	Providing and fixing printed instruction chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from Electric shock with minimum 50" diagonally size.	Ea.	Seprate Specification Sheet attached
185	Supplying stand first AID box with antiseptic cream, medicine for use on wounds due burn, crepe bandage, gauge bandage, medicated ready to use bandage (Band-aid) adhesive tape for medicinal user, Scissors, anti-septic solution (Savlon or similar) etc. (All above contents shall be of standard makes)	Ea.	Seprate Specification Sheet attached
186	Providing and erecting water cooler having storage capacity 25Ltr. & cooling capacity 10 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15° C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc. complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel.	Ea.	Seprate Specification Sheet attached

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187	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed		Seprate Specification Sheet attached
	[B] 25 Ltr / Hr with 30 Ltr. Storage Tank	Ea.	Seprate Specification Sheet attached
188	Providing Power Connection Requirement of 40 KW Including Electrical Connect Power Charges , Inspector Approval . Liaisoning work for additional load for requirement, electrical power connection charges and inspector approval for power	JOB	Seprate Specification Sheet attached
			Seprate Specification Sheet attached
189	Supply, installation, testing, and commissioning of complete Wi-Fi system including wireless access points (indoor/outdoor as specified), wireless controllers, network switches, structured cabling, mounting accessories, PoE injectors or PoE switches as required, configuration, integration with existing LAN infrastructure, and provisioning for seamless wireless connectivity throughout the designated area. The system shall support the latest Wi-Fi standards (minimum Wi-Fi 6 / 802.11ax), ensure high-speed internet access, robust security protocols (WPA3), centralized management, load balancing, roaming capabilities, and scalability for future expansion. All equipment shall be from approved makes, compliant with relevant industry standards, and installed as per manufacturer's guidelines and project specifications. The scope includes necessary civil and electrical works, testing, labeling, documentation, and training to client personnel, complete in all respects.	Ea	Seprate Specification Sheet attached
190	Supply, delivery, installation, testing, and commissioning of a new 75-inch LED/Smart TV for library or display use. The TV should have a minimum native resolution of Full HD (1920x1080), with built-in smart functionality (or compatibility with external streaming devices), at least 2 HDMI ports, USB port(s), and standard audio output connectivity. It should come with a table stand or wall mounting bracket (as required) along with remote, power cable, user manual, and warranty card (minimum 1 year). The supplier shall mount or place the TV at the designated location, ensure it works (inputs, network, picture quality), carry out necessary cable routing (power, HDMI etc.), and hand over in fully operational condition with demonstration to staff.	Ea	Seprate Specification Sheet attached
191	Supply and installation of a monochrome laser printer for use in the library for tasks such as printing borrower slips, overdue notices, reports, and other documents. The printer should have a minimum print speed of 20 pages per minute (ppm), print on dual side of paper, a duty cycle of at least 10,000 pages per month, and support USB and/or Wi-Fi connectivity. The printer should come with starter toner, power cables, driver installation CD (or digital access), and a one-year warranty. Setup and testing at the library site are to be included.	Ea	Seprate Specification Sheet attached
190	Supply, installation, testing, and commissioning of a 5 MP STQC-certified dome-type IP CCTV camera with vandal-proof metal housing, secure firmware, encrypted video transmission, and compliance with MeitY Essential Requirements; to be fully integrated, configured, and commissioned as a complete, operable surveillance unit in accordance with the contract specifications	Ea	Seprate Specification Sheet attached
191	Supply, installation, testing, and commissioning of a 5 MP STQC-certified dome-type IP CCTV camera with vandal-proof metal housing, secure firmware, encrypted video transmission, and compliance with MeitY Essential Requirements; to be fully integrated, configured, and commissioned as a complete, operable surveillance unit in accordance with the contract specifications	Ea	Seprate Specification Sheet attached
192	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	Mtr.	Seprate Specification Sheet attached
193	SITC of CAT6 UTP 23AWG Solid: Per Meter [Approved by Competent Authority i.e. not Below the rank of Executive Engineer	Mtr.	Seprate Specification Sheet attached

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194	SITC of Patch Panel Cat 6 UTP Keystone Type- 24 Port-Fully Loaded [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea	Seprate Specification Sheet attached
195	Supply, Installation, Testing, and Commissioning (SITC) of 1U horizontal cable manager for a 19-inch rack, made of powder-coated steel with a black finish. The manager shall feature multiple D-rings, typically 5 to 7, to provide organized routing and support for patch cables. The design should facilitate easy moves, adds, and changes while maintaining proper cable bend radius. Includes all necessary M6 cage nuts and screws for mounting.	Ea	Seprate Specification Sheet attached
196	SITC of PIGTAIL LC SM SIMPLEX LENGTH- 1m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea	Seprate Specification Sheet attached
197	SITC of 24 x 10/100/1000BASE-T PoE ports 4 x Gigabit RJ45/SFP Combo ports Advanced L2 switching and security features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface 193 W PoE budget [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea	Seprate Specification Sheet attached
198	SITC of PATCH CORD LC-LC SM DUPLEX LENGTH- 3m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea	Seprate Specification Sheet attached
199	Supply and installation of a 24-channel Network Video Recorder (NVR) with support for up to 8 SATA hard drives and capable of handling video input resolutions up to 12MP for both live preview and playback. The NVR shall support H.264/H.265 video compression, provide simultaneous multi-channel recording and playback, and feature user-friendly interface for remote monitoring via web and mobile apps. It must include advanced functionalities such as motion detection, alarm management, and network redundancy options. The unit shall support PoE ports (if applicable) and be compatible with standard IP cameras.	Ea	Seprate Specification Sheet attached
200	Supply and installation of 6TB Surveillance-grade Hard Disk Drive (HDD) suitable for continuous 24x7 operation in CCTV/DVR/NVR systems. The HDD shall be specifically designed for video surveillance applications with enhanced reliability, high write endurance, and optimized for multiple HD video stream recording. It must support SATA III interface (6 Gbps), have a minimum spindle speed of 5400 RPM or higher, and include vibration resistance and thermal management features. Scope includes delivery, integration with existing recording system (DVR/NVR), formatting, testing, and ensuring proper recording functionality. HDD must be from a reputed brand	Ea	Seprate Specification Sheet attached
201	Supplying and erecting ceiling speaker with rated power of 6 watt /power tapping 30/15/7.5 watt available,opening angle 180 degree H * 77 degree V ,sound pressure level 88 dB ,frequency response of 70Hz to 20KHz [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea	Seprate Specification Sheet attached
202	SITC of 16 Zone Standaone Voice Alarm controller 19" 2U rack mount type with Built in Media Player with USB (MP3/ WAV/FLAC), Bluetooth V5.0, FM Radio functions, SD CARD , Pre-recorded Evacuation messages and fire alarm integration supported	Ea	Seprate Specification Sheet attached
203	Supply and installation of a Voice Alarm Call Station designed for emergency communication and public address in safety and security systems. The call station shall support clear two-way voice communication, with built-in microphone and speaker, and include features such as call initiation, emergency signaling, and integration capability with existing voice alarm or public address systems. It should be rugged, wall-mountable, and compliant with relevant safety standards. Scope includes delivery, installation, wiring, integration with the alarm control system, functional testing, and commissioning. The product must carry a minimum one-year OEM warranty.	Ea	Seprate Specification Sheet attached

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204	<p>Supplying & erecting Amplifier having following specification: Power Output :100 W (RMS):(130 W Max.) inputs :5 Mics & 2 Aux. frequency Response :50-15000 Hz+3db Tone Controls :Cut & Boost type Speaker Matching :4-8-ohms 70- 100 V line LED Meter :5 LED Array. The amplifier suitable to operate 240V A.C.& 24 volt D.C. (Battery) with automatic changeover from AC to Battery operation, duly protected by wrong Battery Polarity connection. [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]</p>	Ea	Seprate Specification Sheet attached
205	<p>Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm</p>	Mtr.	Seprate Specification Sheet attached
206	<p>Supply, Installation, Testing, and Commissioning (SITC) of: High-quality, low-impedance, 2-core, 1.5 sqmm speaker cable for the connection of loudspeakers to the voice alarm amplifier/controller. The cable must be suitable for both normal public address and emergency voice alarm applications, ensuring clear and reliable audio signal transmission</p>	Mtr.	Seprate Specification Sheet attached
207	<p>Electric Motor Driven Hydrant Pump Supplying,Installing, testing and commissioning of Fire authority approved Electrical driven fire pump suitable for automatic/ manual operation consisting of the following-Rates for erection of pump only Horizontal split casing, high pressure, single/ multistage centrifugal type fire pump having cast iron body, bronze impeller, stainless steel shaft & capable of delivering 1280 LPM against a total head of 40Mtr while running at 2900 RPM complete with proper connection to suction and delivery line, and including bypass arrangement for testing of pumps as per the requirement. Suitable mechanical seal with mounting agangement shall be included, having a name plate indicating suction, delivery, head, discharge, stages, RPM and direction of rotation. Y Stainers at pump input shall be provided as per manufacturer requirements. Pump shall be capable of furnishing not less than 150% of rated capacity at a head not less than 65 % of rated head. The shut off head shall not exceed 120% of rated head. Squirrel cage, induction motor, TEFC type suitable for 415 + 10%V, 3 phase, 50 Hz, AC supply, of suitable HP rating for the above pump with synchronous speed of 2900 RPM conforming to IP 55 protection & class 'F' insulation. The motor shall conform to</p>	set	Seprate Specification Sheet attached
208	<p>Electrical Motor Driven Jockey Pump Supplying,Installing, testing & commissioning of fire authority approved electrically driven Jockey pump suitable for automatic/manual operation consisting of the following: Horizontal / Vertical mounted multistage jockey pump having cast iron body, S.S. impeller, stainless shaft with mechanical seal capable of delivering 1280 LPM against total head of 40Mtr while running at 2900 RPM complete. The system shall be complete with necessary pressure gauge with gun metal shut off cock on delivery side including bypass arrangement for testing of working of the pumping set as required. The pump should meet the requirement of IS 15105:2002 and must be approved by the local fire authority. Y- Stainers at pump input shall be provided as per manufacturer requirements. Squirrel cage induction motor suitable for 415 + 10%V, 3 phase, 50 Hz, AC supply of suitable HP rating for the above pump with synchronous speed of 2900 RPM T.E.F.C type connected to pump with flexible coupling and coupling guard . Factory fabricated Common base plate for mounting pump and motor fabricated of mild steel channel as per manufacturer's recommendation with heavy duty 4 Nos. Anti Vibration pads.(Cushy foot) . grouting bolts to be provided and installed by the vendor at his cost Suitable reinforced cement concrete pump foundations as per manufacturer's design including foundation bolts, washers as required.</p>	set	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
209	Diesel Fire Pump Supplying, Installation, Testing and commissioning of Diesel engine driven fire pump suitable for automatic operation and consisting of following: Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller, mechanical seal to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 137 m3/Hour@ 40M. head conforming to IS 1520. with M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required. Diesel Fire Pump Discharge : 1280 LPM Pumping Head : 40 M Pump Size : 30 HP	set	Seprate Specification Sheet attached
210	Fire pump panel (Combined for All Pumps) and electrical works - Starter panel with star delta or as per CFO approved starters rated to suite pump HP with necessary protection feautres like SPP / ELR / OL / SC / phase and on off indicating lamps. The busbars shall be of Al - 0.8 A / sq mm size. Panel shall be fabricated from 14G sheet steel with seven tank process powder coated and shall be min IP 52. Panel shall have Ammeter / Voltmeter and KWh meter. Cabling / earthing from panel to pump shall be scope of vendor without any extra cost. Cabling - supply / laying and terminating, shall be Al XLPE armoured / Cu XLPE armoured / as per manufacturers specifications with necessary terminal box to terminate the cables. Panel shall be rated min for 25KA fault level. Cable trays - hot dip GI ladder type 16 gauge with required supports shall be used for cabling. Panel shall have one incomer MCCB / ACB of required rating where by incoming supply and earthing shall be terminated by electrical contractor. Starters shall be suitable for respective motors.panel to take inputs from pressure switch/on-off switch . Flow switch wiring shall be in suitable mms pvc consults. Panel should be manufactured by CPRI approved panel builder	Each	Seprate Specification Sheet attached
211	Supply, Installation, testing and commissioning of CAST IRON Y-TYPE STRAINER (flanged) PN-1.6 ; body - C.I., Screen stainless steel a.150 mm dia	Each	Seprate Specification Sheet attached
212	Supplying,Installing, testing & commissioning of dial type Pressure Guage having 100 mm dial & range of 0-15 Kg/cm2 with syphon and cock.	Each	Seprate Specification Sheet attached
213	Supplying,Installing, testing & commissioning of Pressure Switch required accessories	Each	Seprate Specification Sheet attached
214	Supply, installation, testing and commissioning of butterfly valve PN 1.6, with s.s seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, confirming to IS 13095, of following sizes as required.a. 150 mm dia	Each	Seprate Specification Sheet attached
215	Supply, installation, testing and commissioning of butterfly valve PN 1.6, with s.s seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, confirming to IS 13095, of following sizes as required. b. 100 mm dia	Each	Seprate Specification Sheet attached
216	Supply, installation, testing and commissioning of butterfly valve PN 1.6, with s.s seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, confirming to IS 13095, of following sizes as required. c. 80 mm dia	Each	Seprate Specification Sheet attached
217	Supply, installation, testing and commissioning of butterfly valve PN 1.6, with s.s seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, confirming to IS 13095, of following sizes as required. d. 65 mm dia	Each	Seprate Specification Sheet attached
218	Supplying,Installing, testing & commissioning of CI dual plate non-return valve of following sizes conforming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required.a. 150 mm dia .	Each	Seprate Specification Sheet attached
219	Supplying,Installing, testing & commissioning of CI dual plate non-return valve of following sizes conforming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required. b.65 mm dia	Each	Seprate Specification Sheet attached
220	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. 150 mm	Mtr.	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
221	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. 100 mm	Mtr.	Seprate Specification Sheet attached
222	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required 80 mm	Mtr.	Seprate Specification Sheet attached
223	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required 65 mm	Mtr.	Seprate Specification Sheet attached
224	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required 50 mm	Mtr.	Seprate Specification Sheet attached
225	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required 40 mm	Mtr.	Seprate Specification Sheet attached
226	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required 32 mm	Mtr.	Seprate Specification Sheet attached
227	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Medium class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required 25 mm	Mtr.	Seprate Specification Sheet attached
228	Supplying,Installing, testing & commissioning of Weather proof standard fire hose cabinet (750 mm x 600 mm x 300 mm deep) made out of 16 SWG powder coated M.S. sheet having single or double opening glazed (4.0 mm thick glass) shutter including necessary locking arrangement by allen key, stove enamelled Fire red finish (as per IS : 5, shade no. 536) with " Fire Hose" marked on front, suitable for housing 2 nos. 15m long 63 mm dia Hose pipe, 1 No. branch pipe & nozzle spanner (For External Hydrant).	Each	Seprate Specification Sheet attached
229	Supply, Installation, Testing and Commissioning of Weather proof Standard Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single or double opening with necessary locking arrangement by allan key suitable for housing 1 nos. hose pipe, 1 no. Branch pipe & nozzle spanner.	Each	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
230	Supply ,installation, testing and commissioning S.S. Single Headed Fire Hydrant Valve with 80mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blankcap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	Each	Seprate Specification Sheet attached
231	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS:903) of 63 mm dia and 15 mtrs long.	Each	Seprate Specification Sheet attached
232	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern aluminium short branch pipe	Each	Seprate Specification Sheet attached
233	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 45 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority.	Each	Seprate Specification Sheet attached
234	Supply, installation, testing and commissioning of SS Ball Valve. (a) 25mm dia	Each	Seprate Specification Sheet attached
235	Supply, installation, testing and commissioning of Cast Iron Four Way Fire Brigade Inlet as per IS:904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	Each	Seprate Specification Sheet attached
236	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	Each	Seprate Specification Sheet attached
237	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads. (a) Pendent Sprinkler 57°C - standard response	Each	Seprate Specification Sheet attached
238	Supply, installation, testing and commissioning of ABC type Fire Extinguisher of 6.0 kg conform to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	Each	Seprate Specification Sheet attached
239	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg conform to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	Each	Seprate Specification Sheet attached
240	Supplying,Installing, testing & commissioning of fire alarm and pump trigger system as per requirement and specification consisting of following items. Manual call point:	Each	Seprate Specification Sheet attached
241	Supplying,Installing, testing & commissioning of fire alarm and pump trigger system as per requirement and specification consisting of following items. Hooters:	Each	Seprate Specification Sheet attached
242	Supplying,Installing, testing & commissioning of fire alarm and pump trigger system as per requirement and specification consisting of following items. Pump On / Off switch:	Each	Seprate Specification Sheet attached
243	Supplying,Installing, testing & commissioning of fire alarm and pump trigger system as per requirement and specification consisting of following items. 4 core 1.5 sq.mm cu. Flexinble Cable	MTR	Seprate Specification Sheet attached
244	Supplying,Installing, testing & commissioning of fire alarm and pump trigger system as per requirement and specification consisting of following items. 2 core 1.5 sq.mm cu. Flexinble cable	MTR	Seprate Specification Sheet attached
245	Providing and fixing M.S. structural work fabricated from standard sections, (MS rounds, angles, channels etc.) including cutting to size, drilling, welding, including cost of fasteners, clamps in RCC structural members as directed, including two or more coats of synthetic paint over one coat of primer after surface preparation including cutting and making good walls (Structural other than pipe supoort).	kg	Seprate Specification Sheet attached
246	Painting of above ground lines with two coats of red oxide primer and two coat of sinthetic enamel paint (PO.Red)	Lot	Seprate Specification Sheet attached
247	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: Fire lift size: 4" X 12"	Each	Seprate Specification Sheet attached
248	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: Fire Hydrant: 4" X 12"	Each	Seprate Specification Sheet attached
249	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: "DCP" Extinguisher: 8" X 4"	Each	Seprate Specification Sheet attached
250	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: "CO2" Extinguisher: 8" x 4"	Each	Seprate Specification Sheet attached
251	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: In case of Fire, do not use lift, use staircase: 8" x 8"	Each	Seprate Specification Sheet attached
252	Coating & Wrapping for underground pipe Wrapping Tape (150mm wide x 4mm thick)	SQ MTR	Seprate Specification Sheet attached

Sr. No.	Item of Work	Unit	Specification as per general Technical Specification book approved by R&B Department for Building uploaded here with/Separate sheet attached
253	Getting Approval/NOC of Fire protection system from local fire authority and any other relevant statutory authority at initial and various other stages of work, including preparation of report/drawings as per fire authority.	NOS	Seprate Specification Sheet attached
254	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	Seprate Specification Sheet attached
255	Providing laying and jointing in true line and level 20mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	Seprate Specification Sheet attached
256	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	Seprate Specification Sheet attached
257	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	Seprate Specification Sheet attached
258	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	Seprate Specification Sheet attached
259	Providing laying and jointing in true line and level 50mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	Seprate Specification Sheet attached
260	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [B] 20 mm. All Conceal Pipe line Cold & Hot Water & RO Water	Rmt	Seprate Specification Sheet attached
261	Providing, fixing, jointing and testing, heavy quality cast bronze / brass BALL VALVE / OR WHEEL valves of approved make, including flanges / unions, nuts, bolts, washers, etc. complete, as approved by the Architect and Engineer-in-charge for water supply lines of the following Nominal bore (NB) size: 25 mm	Nos.	Seprate Specification Sheet attached
262	Providing, fixing, jointing and testing, heavy quality cast bronze / brass BALL VALVE / OR WHEEL valves of approved make, including flanges / unions, nuts, bolts, washers, etc. complete, as approved by the Architect and Engineer-in-charge for water supply lines of the following Nominal bore (NB) size: 32mm	Nos.	Seprate Specification Sheet attached
263	Providing, fixing, jointing and testing, heavy quality cast bronze / brass BALL VALVE / OR WHEEL valves of approved make, including flanges / unions, nuts, bolts, washers, etc. complete, as approved by the Architect and Engineer-in-charge for water supply lines of the following Nominal bore (NB) size: 40mm	Nos.	Seprate Specification Sheet attached
264	Providing, fixing, jointing and testing, heavy quality cast bronze / brass BALL VALVE / OR WHEEL valves of approved make, including flanges / unions, nuts, bolts, washers, etc. complete, as approved by the Architect and Engineer-in-charge for water supply lines of the following Nominal bore (NB) size: 50mm	Nos.	Seprate Specification Sheet attached

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265	Providing, fixing, jointing and testing, heavy Quality Gun metal or brass Non return valve confirming to IS 778, with screwed / flanged ends, 20 Kg/m2 of approved make, on water supply lines of the following Nominal bore (NB) size: 40mm	Nos.	Seprate Specification Sheet attached
266	Providing, laying and jointing in true line and level 110 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diametre x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials. (Soil + Waste + Rain Water)	Rmt	Seprate Specification Sheet attached
267	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor. (C) 32mm (waste water for Wash basin)	Rmt	Seprate Specification Sheet attached
268	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor. (E) 50mm	Rmt	Seprate Specification Sheet attached
269	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure polythene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor. (F) 75mm	Rmt	Seprate Specification Sheet attached
270	Providing, fixing, jointing and testing IS 14735 for Drain PVC SWR 'P' - traps of self cleansing design with water seal not less than 50 mm., with or without vent, cutting chases / hole in floors / slabs and bringing the same in proper condition and shape after placing the trap in right position in case of suspended / open plumbing or setting the trap in 1:2:4 CC in case of concealed plumbing , etc. complete, as required. The trap shall be ' P' type, of following sizes: 110 x 110 mm OD inlet / outlet	Each	Seprate Specification Sheet attached
271	Providing and fixing Heavy class S.S. grating with Mosquito proof S.S. strainer of Chilly or equivalent make, as approved, (cockroach trap) including setting in floor with cement mortor to match with floor finish as per architect requirements.	Each	Seprate Specification Sheet attached
272	Providing and fixing in position cowel went to pipes. (B) 75mm dia.	Each	Seprate Specification Sheet attached
273	Providing and fixing in position cowel went to pipes. (C) 100mm dia	Each	Seprate Specification Sheet attached
274	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (B) 150mm	Rmt	Seprate Specification Sheet attached
275	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (C) 250mm	Rmt	Seprate Specification Sheet attached
276	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight.(i) Square mouth traps. (A) 100mm x 100mm size P type.	Each	Seprate Specification Sheet attached
277	Supplying and fixing C.I. cover 300mm x 300mm without frame for Gulley trap (Standard pattern) te weight of cover to be not less 4.53 Kg.)	Each	Seprate Specification Sheet attached
278	Constructing Brick masonry road gully chamber 500mm x 450mm x 600mm including 500mm x 450mm C.I. horizontal grating wih frame complete.	Each	Seprate Specification Sheet attached
279	C.I. Cover with frame 500mm x 700mm	Each	Seprate Specification Sheet attached

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280	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/ Cm ² in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm internal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(iii) Inside dimensions 600mm x 850 mm and 450mm deep for pipe lines with three or more inlets.	Each	Seprate Specification Sheet attached
281	Extra over items 24.44 for every additional depth of 0.1M. Of part thereof beyond 450mm depth for Brick masonry chamber.(iii) for 600mm x 850mm size.	Each	Seprate Specification Sheet attached
282	C.I. Cover without frame 455mm x 610mm	Each	Seprate Specification Sheet attached
	Installing, testing and commissioing of Pump system comprising of horizontal Submersible Pumps with SS casing, SS impeller, SS Shaft and driven by 415 V AC, 3 phase, 50HZ., motor running at 2900 rpm speed and shall be supplied with all accessories viz., base plate, coupling, motor, VFD based control panel, dry run & overload protection, cabling up to panel, earthing, GI medium duty suction, delivery & header pipes, pressure gauge, pressure switches, pressure transmitter, suction ball valves & delivery ball valves & check valves etc., complete.		Seprate Specification Sheet attached
283	200 lpm., 40mtr., (To GROUND FLOOR TO TERRACE TANK) FOR DOMESTIC WATER	SET	Seprate Specification Sheet attached
284	Supply, installation, testing & commissioning of Water level controller for the OH tanks with switches, hardwares, interlocking with panel, etc.		Seprate Specification Sheet attached
	For Under Ground tank & OH Tank	SET	Seprate Specification Sheet attached