

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
1	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(i) Not exceeding 3 Sq.M. in area.	Each	Seprate Specification Sheet attached
2	Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	Sqm	Seprate Specification Sheet attached
3	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.	Sqm	Seprate Specification Sheet attached
4	Demolition of Brick work and stone masonry including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	Cum	Seprate Specification Sheet attached
5	Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	Cum	Seprate Specification Sheet attached
6	Dismantling steel work including distempering and stacking the materials with all lead and lift.	Kg	Seprate Specification Sheet attached
7	Dismantling sanitary fittings like wash basin . W.C. pan Indian and European type, flushing tank etc. including stacking the materials with all lead and lift.	Each	Seprate Specification Sheet attached
8	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
9	Excavation for foundation up to 0 to 1.5 mt. depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 meter lead. (A) Loose or soft soil	Cum	Seprate Specification Sheet attached
10	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
11	Disposing off the surplus excavated stuff (Earth) for lead 5 K m as directed by engineer in charge. (A) lime murrum building rubbish earth manure or sludge & excavated rock and rubbish [Earth]	Cum	Seprate Specification Sheet attached
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering.	Cum	Seprate Specification Sheet attached
13	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
14	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete	Cum	Seprate Specification Sheet attached
15	Applying general insecticide pest control treatment to floors, cupboards etc including labou rmaterials etc. complete. Using Imidacloprid 20 EC As Per 6113 pests Concentration Weight 0.50 percent is recommended on litre chemical emulsion dilute with 39 liter of water will give. Total dilute concentration with will be 40 litre inclusive of one litre chemical emulsion application 0.5 litre chemical/Sqm of surface is recommended as per I.S.	Sqm	Seprate Specification Sheet attached
16	Providing and filling with good quality sinder (steam coal) as directed by engineer in charge in sunks in layers of 15 cm thk, including watering, placing, ramming/Compacting etc. as directed.	Cum	Seprate Specification Sheet attached
17	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
18	Providing and laying controlled cement concrete M.30 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 M.30 all RCC elements of Foundation , Footings base of column at upto Plinth Level	Cum	Seprate Specification Sheet attached
19	Providing and laying controlled cement concrete M.30 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 M.30 all RCC elements of Column at all floor level	Cum	Seprate Specification Sheet attached
20	Providing and laying controlled cement concrete M.30 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 M.30 all RCC elements of RCC wall at all floor level	Cum	Seprate Specification Sheet attached
21	Providing and laying controlled cement concrete M.25 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 M.25 all RCC elements of Beam at all floor level	Cum	Seprate Specification Sheet attached
22	Providing and laying controlled cement concrete M.25 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 M.25 all RCC elements of Slab at all floor level.	Cum	Seprate Specification Sheet attached
23	Providing and laying controlled cement concrete M.25 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 M.25 all RCC elements of Lintel at all floor level	Cum	Seprate Specification Sheet attached
24	Providing and laying controlled cement concrete M.25 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 M.25 all RCC elements of Stair at all floor level	Cum	Seprate Specification Sheet attached
25	Providing and laying controlled cement concrete M200 with all lead from plant site including all other taxes, octroi, transportation, pumping, pouring, curing, vibrating of concrete etc complete including the cost of any shape formwork (Round, Square, Rectangle, half circle, arc, etc.) of any height, and at all Level but excluding the cost of reinforcement for reinforced concrete work in M200 Grade Slab (Cement Level 360 Kg)	Cum	Seprate Specification Sheet attached

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26	TRIMIX Road (M200) : Providing & Laying M200 grade controlled cement concrete without fly ash trimix usinng P21 (water reducing concrete admixture at 100 ml per bag of cement & recon 3 s fiber at 125 gm per bag of cement including Cutting, Filling, Rolling, consolidating and Shuttering of C channel required to maintain level, slope and thickness of the concrete road leveling of placed concrete with surface vibrator and finishing with power floater & trowel light brooming the surface & including Construction joints to be formed at every 5 mt distance by grooving with mechanical saw within 48 hrs. Groove/sawed joints shall be made of 5 mm width and depth min (1/3 rd depth of the pavement) as shown in the drawing and shall be filled with ready to use PU sealant of UV gradecutting & filling of expansion joint as directed by Engineer in charge	Cum	Seprate Specification Sheet attached
27	Providing TMT Bar FE 500/500D reinforcement for R.C.C. work including bending, binding and placing in position complete, all floor level	Kg	Seprate Specification Sheet attached
28	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 pardl, 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 arrngement.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.	Litre	Seprate Specification Sheet attached
29	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	Liter	Seprate Specification Sheet attached
30	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tipper to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	Cum	Seprate Specification Sheet attached
31	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tipper to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	Cum	Seprate Specification Sheet attached
32	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical averfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	Seprate Specification Sheet attached
33	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation, plinth and superstructure in Cement Mortar 1:6 (1- Cement : 6 -fine sand) (B) Conventional, For all floor	Cum	Seprate Specification Sheet attached
34	Masonry work with aerated light weight concrete Blocks of size 60cm x 20cm x 20cm size, having crushing strength @ 35 kg/sqcm Fixing with ready-mixed mortar ('Fixoblock'of M/s Ultratech cement Ltd./Rapid Fix/Lion) having tensile adhision strength >0.8 N/mm2 and compressive strength of >2N/mm2.The mortar is to be fixed in a thickness of 3mm to 5mm on the clean and leveled surface of blockmasonry using proper trowel. For all floor and lead and lift For superstructure.	Cum	Seprate Specification Sheet attached
35	Providing 10mm.Thick cement plaster in single coat on ceiling and sofit for plastering upto any level finished even and smooth in [I]Cement mortar 1:3 (1 cement : 3 fine sand) Work complete including all type of scaffolding , tools, tackles etc complete.	Sqm	Seprate Specification Sheet attached
36	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 scaffolding, curing, tools, tackles etc complete.	Sqm	Seprate Specification Sheet attached
37	Providing 15mm thick cement plaster in single coat on Rough (Similar) side of single or half brick walls/RCC for plastering any level and finished even in Cement mortar 1:4 (1-cement :4-sand) Work complete including all type of scaffolding , tools, tackles etc complete.	Sqm	Seprate Specification Sheet attached
38	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 seprate tender item. (Item should be executed by approved applicator only.)	Sqm	Seprate Specification Sheet attached

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39	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" grove 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
40	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.	Sqm	Seprate Specification Sheet attached
41	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	Sqm	Seprate Specification Sheet attached
42	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.	Sqm	Seprate Specification Sheet attached
43	Water proof plaster : Providing 15 mm thick water proof cement plaster in single coat on brick/ block masonry or RCC wall, at all heights, finished even and smooth in CM 1:3 (1 cement : 3 sand) including providing and mixing water proofing materials of approved make in recommended proportions by manufacturer and as directed by Engineer-in-charge and finishing the surface wired finish to receive the tiles/ smooth finish with a floating coat of neat cement slurry at 2.75 Kg/ sqm etc. complete at floor	Sqm	Seprate Specification Sheet attached
44	Vitrified Flooring : 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 dismantaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for light shade	Sqm	Seprate Specification Sheet attached
45	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 dismantaling 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
46	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
47	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, The work shall be carried out as per the approval of architect and engineer-in-charge. for all floors	Sqm	Seprate Specification Sheet attached
48	As per above specification all work shall be done. For different kind of finishing like lapato/leather/thread or as per Architect sugestion	Sqm	Seprate Specification Sheet attached
49	Providing and laying 16 to18 mm thick polished Granite stone slab machine cut in single piece in risers of steps, dedo, pillar, sill and jambs or dedo laid on 10 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) laid over and jointed withgrey cement slurry incl. rubbing and polishing etc complete. The rate includes loddng, unlodding, 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
50	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
51	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 , dedo 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
52	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 concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1 cement : 3 fine sand) etc complete.	Rmt	Seprate Specification Sheet attached
53	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pnumatic 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 guidlines of IRC : SP 63-2018 etc. Complete.	Sqm	Seprate Specification Sheet attached

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54	Gypsum Ceiling : Providing and fixing single layer water proof gypsum board 12.5 mm thick sections using water proof board of size 1220 mm x 1830 mm x 8.0 mm suspended by GI suspender channel of size 25 mm x 3 mm with intermediate channel og size 18 mm x 40 mm x 0.8 mm at 1220 mm center to center ceiling section of size 40 mm x 35 mm x 0.55 mm at 457 mm c/c and perimeter channel A of size 20 mm x 27 mm x 30 mm x 0.5 mm at edges & drops incl.paper tap sand sofit cleat, anchor fastener, scotch bolt connecting cleat,joining compound top coat on ceiling incl. making necy. opening for light fitting,diffuser etc. comp. as per detail drawing as directed.	Sqm	Seprate Specification Sheet attached
55	Wooden ceiling finish with veneer : Providing and fixing IS 710 12 mm thick plywood false ceiling as per drawing & instruction of EIC & sample approved (complete with frame work). finish with 4 mm th veneer gurjan base ply Semi glossy PU finish polish. Plywood shall be fixed with required fabrication work and ply frame work with all necessary accessories Rate shall include cost of making of all cutouts for light fixtures, gadgets, gizmo, pelmets, grooves, beads and also provide support/template where ever required, The rate shall be in sq.mt for all floors and at all heights including all costs the shop drawing (or a sample mock of 5 Sqm minimum of the frame work and ceiling) shall be approved from EIC. 5mm Groove shall be provided at the junction of the false ceiling & the wall. (considering all levels with require all fabricataion work and fitting from MS Truss / RCC slab to false ceiling up to 2400 mm)	Sqm	Seprate Specification Sheet attached
56	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 agrid 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 1200X600mm panel to form grid of size 600X600mm resting on periphery walls/partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of 0.40mm thick (minimum) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick Densified edges light weight calcium silicate ceiling tiles of approved texture (Fine Fissured/Cosmos/Spintone) in the grid including, cutting /making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc.,wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25X35X1.6mm 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	Sqm	Seprate Specification Sheet attached
57	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 Columns:as per specification work (Elevation area- At any height)	Nos	Seprate Specification Sheet attached
58	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 CORNICE FINISH WITH GRC BEND -As per above specification work.(Elevation area)	Rmt	Seprate Specification Sheet attached

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59	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 per above specification work.(Elevation area)	Sqm	Seprate Specification Sheet attached
60	Acoustic Fabric panelleing : Providing and supplying Armstrong/himaliai/Autumn or equivalent as per Approved by Architect/EIC 'Optra Acoustical Wall Paneling' with square edges made of fibre glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and classified for Fire reaction Class B-s1, d1 as per EN13501, fabric with an option of colors – Ivory, Orange, Pista Green, Straw Gold, Rustic Green, Burgundy, Rust, Peacock Blue, Ash Grey, Mocha as per the choice of the Architect of size 600X1200 mm providing a minimum sound absorption level of 0.90 NRC to be affixed to wall using Wall panel impalers supplied by Approved make and construction adhesives as per the instructions laid down by the manufacturer. INSTALLATION : 4nos. make as per Approved by Architect/EIC, wall panel Impalers of shall be fixed to the wall surface using self tapping screws. Silica based construction adhesive to be dabbed on to the projecting elements (spikes) of the impalers. Optra wall panels shall be pierced through the spikes of the impalers ensuring the line and level of the panels are maintained.Installation to be carried out by approved make Trained Installation team & Installation should be carried out as per Armstrong or equivalent and approved make recommended procedure. Warranty Certificate and Test Reports for NRC and Fire rating shall be provided by Vendor.	Sqm	Seprate Specification Sheet attached
61	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
62	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
63	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
64	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 65 x 58 mm & sash 45 x 90 mm both having wall thickness of 1.9+ 0.2 mm and single glazing bead of appropriate dimension.	Sqm	Seprate Specification Sheet attached
65	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	Sqm	Seprate Specification Sheet attached
66	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

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
67	Wall Punning : Providing and applying Plasto XP Gypsum plaster (USG Boral) or equivalent make , minimum 12 mm thick in Wall and minimum 6 mm thick in ceiling , including all labors, tools, tackles, scaffolding, surface preparation, mixing of material, transportation (lead & lift) applying in position, Levelling, finishing, cleaning etc. complete to satisfaction of Employer's representative/ Employer. The rate also include making of grooves above skirting, Dedo tiles and around window and door jambs etc. (cost of Bonding agent to the ceiling or RCC surfaces is to be included in the item).item shall be used as per instruction of Employer's representative/ Employer .	Sqm	Seprate Specification Sheet attached
68	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
69	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
70	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
71	Applying priming coat over new steel and other metel surface after and including preparing the surface by thoroughly cleaning, oil, grease, dirt and other for eign matter and scoured with brushes fine steel wood, scraper sands and paper with ready mixed priming paint brushing red lead.	Sqm	Seprate Specification Sheet attached
72	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 cleanin the surface of all dirt, dust and other foreign matter.	Sqm	Seprate Specification Sheet attached
73	Providing and fixing rolling shutters of approved make made of 80 mm wide M.S. laths inter-locked together through their entire length and jointed together at the ends by end locks mounted on specially designed pipe shaft with bracket plates, guide channels and arrangements for inside and outside locking with push-pull operation including the cost of hood cover and spring etc. complete.(A) Shutters having width below 3.5 M.	Sqm	Seprate Specification Sheet attached
74	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
75	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
76	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
77	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
78	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
79	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

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
80	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
81	Duct Door finish with cement sheet & frame : Providing and fixing in position 12mm thik ply all proof shutter & Indian Teak Wood Frame of approved make having fire retardant ply facing on one sides and finished with 12mm thick cement fiber board with interior Paint and inner side oil paint as approved , shutter fixed with floor of approved make , lock & handle etc fixtures of approved make list with all necessary fittings etc. complete as per detailed drawings and specifications. sample mock shall be approved from Architect/EIC.	Sqm	Seprate Specification Sheet attached
82	White washing with lime on wall surface (three coats) to give an even shade incl. thoroughly brooming the surface to remove all dirt, dust, mortar drops and extra subsequent coat of white washing with lime on wall surface.	Sqm	Seprate Specification Sheet attached
83	Providing and fixing rolling shutters of approved make made of 80 mm wide M.S. laths inter-locked together through their entire length and jointed together at the ends by end locks mounted on specially designed pipe shaft with bracket plates, guide channels and arragements for inside and outside locking with push-pull operation including the cost of hood cover and spring etc. complete. (B) Shutters having width 3.5 M. and above	Sqm	Seprate Specification Sheet attached
84	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 trusses and trussed purlins, 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	Qunital	Seprate Specification Sheet attached
85	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	Sqm	Seprate Specification Sheet attached
86	Road Marking with hot applied thermoplastic paints with reflectorising glass beads on bitumen/RCC surface providing and laying a hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads @250gms/m2 area , thickness of 2.5mm is excluding of surface applied glass beads as per IRC: 35-2015. The finished surface to be levelled, uniform and free from streaks and holes. Thermoplastic paint shall be used for Zebra Patta, Bump Patta lane, edge line, cut patta, arrows for direction, letter or number writing etc. The white colour marking should provide liminance co-efficient on cement road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time the marking should make the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section- 15 of IRC: 35-2015. Warranty for retro reflectivity shall be 2 (Two) years.	Sqm	Seprate Specification Sheet attached
87	Providing and fixing of Corner Guard for Various Flashing in 100mm x 100mm size in Equal Shape with 5mm edge lipping on both side . The Angle Flashing shall be made out of 8 to 10 mm thick, The corner guard shall have plastic protective guard film of minimum 25 microns to avoid scratches during transportation. The U track shall be fixed with suitable POP rivet with wall and roof panels with minimum spacing of 450 mm c/c. size of guard 1000mm length	Nos	Seprate Specification Sheet attached
88	Cat Eye/Road Stud/RPM: Supplying of Molded TwinShanks Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panelswithmicro prismatic lens capable of providing total internal reflection of the lightenteringthe lens face and shall support a loadof 13635kgs. tested in accordance to ASTM D4280Type Handcomplying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 20mm, 130mm and 130mm and with minimum reflective area of 13Sq cmon each side and the slope to the base shall be 35+/-5 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than19+/-2mm and height not less than 30+/-2mm) from the body is to be a minimum value of 500Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and The color of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	Each	Seprate Specification Sheet attached
89	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.	Each	Seprate Specification Sheet attached
90	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 seperate 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

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
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91	Artificial Plant : Providing and supplying planters with plant as per selection of Architect. Item includes cost of all labour, transport 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, transportation, placing at all floors and for all leads.	Nos	Seprate Specification Sheet attached
92	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
93	DOOR MAT : 3M Nomad - Wiping technology - Heavy Duty 7150 - or equivalent approved make Grey Colour: Open Contruction 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
94	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
95	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 mortar 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
96	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, transfort 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
97	Inauguration Plate : Providing and installation of Granite Foundation stone/inauguration plank 18-19mm thick engraved with writing provided by EIC and engraved filled with golden colour and with a wooden frame.	Sqm	Seprate Specification Sheet attached
98	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 : DEPARTMENT OF ARCHEOLOGY, BHUJ)	Each	Seprate Specification Sheet attached
99	Table arrangement planter with pot :Providing and supplying as per selection of architect.Decorative plants may vary height from 8" to 12" with pot.	Nos	Seprate Specification Sheet attached
100	Providing and placing in position HAND KNOTED carpets made from 100% Newzealand wool/Viscoes ,100 knotes aprox pile height 10 mm as required and approved by the Architect.	Sqm	Seprate Specification Sheet attached
101	Lawn plantation : Individual Grass Crop Installation This work includes the supply and installation of healthy, well-rooted individual grass plants for the development of a lawn. The surface shall be properly prepared by leveling, removing debris, and ensuring suitable soil conditions for plantation. Farmyard manure shall be mixed thoroughly with the topsoil before planting to enhance soil fertility and promote healthy grass growth. Individual grass crops shall be planted at uniform spacing for even coverage and proper rooting. After installation, the lawn shall be maintained for a period of three months, including regular watering, weeding, gap filling, trimming, and application of manure or fertilizer as required to ensure a dense, uniform, and healthy green lawn.	Sqm	Seprate Specification Sheet attached
102	Tree plantation : Providing & Laying Tree plantation including providing and fixing tree guard. Rate also inclusive of maintaining the tree plant in live condition at the time of completion of work. Rate are including providing necessary tree guard. (average height of tree 3' to 5' above bags/ pots)	Nos	Seprate Specification Sheet attached
103	Shrub plantation : Supplying well grown shrub plants and ground cover plants of average height 3' to 4' and planting in planter or on ground by providing and mixing FYM @ 0.06cum/pit with soil pesticide & insecticide. Plants should be disease free and fungus free in 8"x 10" polythene bag. Plastic bags or pots should be removed carefully and soil around the roots should not be dropped or disturbed much. Bill shall be placed after completion of maintenance period but not before stabilizing the shrubs. Mortality rates to be inclusive. Work shall be done as shown in the drawing or as directed and approved by EIC. The ground coverage should be dense and uniform throughout the planting area.	Sqm	Seprate Specification Sheet attached
104	FURNITURE WORK (CUSTOMADE & MODULAR) FULL HT STORAGE(CARPENTRY WORK): Providing, making and fixing full height storage units in position as per reference drawings and as directed by the Architect / Engineer-in-Charge (EIC). Storage units shall be made from IS 710 MR Grade plywood using 19 mm and 12 mm thick ply as required, finished with approved laminate on both sides of approved make and shade. Solid shutters shall be made from IS 710 MR Grade 19 mm thick plywood with laminate finish on both sides, complete with approved locking arrangement system and all necessary hardware, fabricated as per reference images, approved samples, detailed drawings and Architect / EIC instructions. Shelves shall be provided and fixed as per instructions of the Employer's Representative / Employer, made from IS 710 MR Grade plywood and finished with approved laminate on both sides, including all materials, labour, fittings, fixing and installation complete in all respects.	Sqm	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
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105	Low Height Storage : Providing, making, fixing as per detail drawing made from 19 mm IS 710 BWP ply structure and both side 1 mm thick laminate finish shall be of approved make & shade and as per the detail drawing. All the edges of ply shall be covered with 1 mm thick laminate finish Rate shall also inclusive of all necessary brass satin finish nickel plated/S.S 304 grade hardware like Hinges, locks,6"handle , 75 mm tower bolts, ball catches/Magnet, The rate shall be in sqm of elevation area for all floors and at all heights including all costs complete as per the Architectural drawings & instructions.Only the elevation area of the storage unit will be measured and paid for. Item for 1 mm thick laminate fixing and polishing is included in this item. Approval of all loose material (sample of materials to be used) & raw manufacturing to be got approved in advance from EIC & Architect prior to the final production of the work. Manufacturing shall in parts or as whole as per the requirements & or assembled at site as per the requirement and directed by EIC & Architect. All material to be used shall be as per the drawings & confirm to the relevant detailed material specifications of this document. The work shall be measured & paid in sqm The rates shall be inclusive of all wastages, material, labor, taxes, transportation, loading, unloading, fixing in position, etc. complete to the satisfaction of the Architect and EIC. The mock-up of 1 unit shall be approved from EIC and Architecture prior to the final production.	Sqm	Seprate Specification Sheet attached
106	PANTRY BELOW STORAGE 600DX800 H: Providing, making, fixing as per detail drawing made from 19 mm IS 710 BWP ply structure and first class indian teak wood frame, both side 1 mm thick laminate finish shall be of approved make & shade and as per the detail drawing. All the edges of ply shall be covered with 1 mm thick laminate finish Rate shall also inclusive of all necessary brass satin finish nickel plated/S.S 304 grade hardware like Hinges, locks,6"handle , 75 mm tower bolts, ball catches/Magnet, The rate shall be inclusive of shelf both side 1 mm thick laminatefinish and as per detail drawer unit with SS 304 grade kitchen basket as per selction by architect The rate shall be in sqm of elevation area for all floors and at all heights including all costs complete as per the Architectural drawings & instructions.Only the elevation area of the storage unit will be measured and paid for. Item for 1 mm thick laminate fixing and polishing is included in this item. The work shall be measured & paid in sqm The rates shall be inclusive of all wastages, material, labor, taxes, transportation, loading, unloading, fixing in position, etc. complete to the satisfaction of the Architect and EIC. The mock-up of 1 unit shall be approved from EIC and Architecture prior to the final production.	Sqm	Seprate Specification Sheet attached
107	PANTRY ABOVE STORAGE 600DX800 H: Providing, making, fixing as per detail drawing made from 19 mm IS 710 BWP ply structure and first class indian teak wood frame, both side 1 mm thick laminate finish shall be of approved make & shade and as per the detail drawing. All the edges of ply shall be covered with 1 mm thick laminate finish Rate shall also inclusive of all necessary brass satin finish nickel plated/S.S 304 grade hardware like Hinges, locks,6"handle , 75 mm tower bolts, ball catches/Magnet, The rate shall be in sqm of elevation area for all floors and at all heights including all costs complete as per the Architectural drawings & instructions.Only the elevation area of the storage unit will be measured and paid for. Item for 1 mm thick laminate fixing and polishing is included in this item. Approval of all loose material (sample of materials to be used) & raw manufacturing to be got approved in advance from EIC & Architect prior to the final production of the work. Manufacturing shall in parts or as whole as per the requirements & or assembled at site as per the requirement and directed by EIC & Architect. All material to be used shall be as per the drawings & confirm to the relevant detailed material specifications of this document. The work shall be measured & paid in sqm The rates shall be inclusive of all wastages, material, labor, taxes, transportation, loading, unloading, fixing in position, etc. complete to the satisfaction of the Architect and EIC. The mock-up of 1 unit shall be approved from EIC and Architecture prior to the final production.	Sqm	Seprate Specification Sheet attached
108	2 SEATER SOFA - 1500mmW x 750mmD x 750mmH REDEFINO - Providing and supply Sofa sturcture made from 18mm MR Grade Mr grad plywood supported with Maranti Solid wood, back side and curved part Covered with 3mm flexi ply, sofa arm made from 12mm thick MR Grade Mr grad plywood supported with maranti solid wood. Elastic Belt, 75mm board & 2.25 mm thick elastic webbing stapling in seat frame at 100 mm centre to centre distance, belt fastern in X and Y axes of seat, elastic belt elongation 45% tensile strength 350 kg. Foam 100 mm X 40 density Premium Quality foam covered with 25mm X 32 density super soft Premium Quality Foam for soft touch filling in seat. 50 mm X 40 density Premium Quality foam covered with 25mm X 32 density super soft Premium Quality foam for soft touch filling in back. Stiching Stiching work done with well known german brand (Aman / Gutermann) Thread. Nylone & Polyster thread used as per application. Stainless steel 202 Grade 50 mm X 25 mm Legs used in sofa.	Nos	Seprate Specification Sheet attached
109	3 SEATER SOFA : 2100mm (L) x 600 mm (B) x 750 mm (H) made up of Solid teak wood frame PU matt finished polish. The seat & back shall be in high density foam & finished in Approved fabric upholstery & back - back side finish with ply 303 & veneer finish /with SS leveler as per the drawing/image and instruction from Architect/EIC all external & internal exposed woodwork to be finished in PU matt finish polish. 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. Rate shall inclusive of shop drawing ,mock up sample, all materials, loading, unloading, all taxes, transportation, placing at all floors and for all leads,all accessories as described in item description.As approval of architect.	Nos	Seprate Specification Sheet attached

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Seprate Specification Sheet			
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110	CORNER TABLE (CUSTOM MADE) - 600MM (L) x 600MM (W) - Providing fixing complete as per drawing/Ref Image. center table 35 mm thick top made from IS 303 grade ply with gurjan base ply veneer finish semi gloss PU finish and vertical support from ss 304 grade , including all type of hardware, fittings, fixtures , tools , tackles , etc complete as per attached ref image and drawing. The work shall be done as per the specifications, sample approved and as directed by the Architect and Engineer-in-charge.	Nos	Seprate Specification Sheet attached
111	CENTER TABLE - 1200MM (L) x 600MM (W) x 450mm (H) - Providing fixing complete as per drawing/Ref Image/Sample and Approved make. center table top made from 303 BWR ply with veneer finish matt PU finish and vertical support from solid teak wood with detailed shape & size with PU matt polish , including all type of hardware, fittings, fixtures , tools , tackles , etc complete as per attached ref image and drawing. The work shall be done as per the specifications, sample approved and as directed by the Architect and Engineer-in-charge. Provding and fixing/placing custom made furniture as per detail drawing/ref.image.The work shall be done as per the approved shop drawing (to be prepared by contractor), specifications, mock up 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. The unit shall be manufactured in parts and these parts shall be assembled at site.	Nos	Seprate Specification Sheet attached
112	CHAIR TYPE - 01 (MAIN CHAIR) : Providing and supply PREMIUM EXECUTIVE REVOLVING CHAIR (High Back)- Upholstered with Leatherette seat have be made up of 12 mm +/- 1 mm thick hot pressed Mr grad plywood and back in two Pieces - 12 mm Inner Back and 6 mm Rear Back. Moulded polyurethane foam with Fire Retardant Grade - (FR) used in making seat which have be moulded with density 45+/- 2 kg/m ³ , back have be Upholstered with density 32+/- 2 kg/m ³ block foam & filling with polyurethane fiber. Spine bracket should be made of M.S plate 8 mm Thickness connecting back with mechanism. Armrest top is soft touch upholstered with leatherette mounted on to an injection moulded fix type armrest which is fix on the Aluminum Pressure Die Casted (PDC) bracket with mirror finish and supported on powder coated twin pipe fittings. The mechanism of the chair have have following features : 360° revolving type, synchronous DONATI, Italy. Mechanism, Tilt tension adjustment, 5-position locking with Anti-Shock feature. The chair have be provided with pneumatic height adjustment which have have stroke of 90 +/- 5 mm. The five leg Base is made up of 38mm dia x 1.2mm thick tubular with 3.15 mm thick centre hub CRC fabricated chrome finish. It have be fitted with 50 mm dia Twin wheel castor. The size of the base have be - 660 +/- 1 mm pitch-centre-diameter. Load test as per BIFMA compliance. The twin wheel castors have be made of Nylon injection moulded in black colour. Overall dimensions of Chair have be, Width of Chair - 640 mm, Depth of chair 640 mm as measured from base below. Height of back from ground - min 1170 mm to max 1270 mm. Seat height - min 475 mm to max 575 mm. Dimensions tolerance / variations have be within +/- 10 mm. (Make : FEATHERLITE / GODREJ / HAWORTH / HOF)	Nos	Seprate Specification Sheet attached
113	CHAIR TYPE - 02 (VISITOR CHAIR) : Providing and supply PREMIUM EXECUTIVE REVOLVING CHAIR (Medium Back) - Upholstered with Leatherette seat have be made up of 12 mm +/- 1 mm thick hot pressed Mr grad plywood and back in two Pieces - 12 mm Inner Back and 6 mm Rear Back. Moulded polyurethane foam with Fire Retardant Grade - (FR) used in making seat which have be moulded with density 45+/- 2 kg/m ³ , back have be Upholstered with density 32+/- 2 kg/m ³ block foam & filling with polyurethane fiber. Spine bracket should be made of M.S plate 8 mm Thickness connecting back with mechanism. Armrest top is soft touch upholstered with leatherette mounted on to an injection moulded fix type armrest which is fix on the Aluminum Pressure Die Casted (PDC) bracket with mirror finish and supported on powder coated twin pipe fittings. The mechanism of the chair have have following features : 360° revolving type, synchronous DONATI, Italy. Mechanism, Tilt tension adjustment, 5-position locking with Anti-Shock feature. The chair have be provided with pneumatic height adjustment which have have stroke of 90 +/- 5 mm. The five leg Base is made up of 38mm dia x 1.2mm thick tubular with 3.15 mm thick centre hub CRC fabricated chrome finish. It have be fitted with 50 mm dia Twin wheel castor . The size of the base have be - 660 +/- 1 mm pitch-centre-diameter. Load test as per BIFMA compliance. The twin wheel castors have be made of Nylon injection moulded in black colour. Overall dimensions of Chair have be, Width of Chair - 640 mm, Depth of chair 640 mm as measured from base below. Height of back from ground - min 950 mm to max 1050 mm. Seat height - min 475 mm to max 575 mm. Dimensions tolerance / variations have be within +/- 10 mm.	Nos	Seprate Specification Sheet attached

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114	CHAIR TYPE - 03 (VISITOR) : Providing and supply Med. Back Rev. Chair Upholstered with Leatherette seat made up of 12 mm +/- 1 mm thick hot pressed Mr grad plywood and back in two Pieces - 12 mm Rear Back and 6 mm inner Back. Moulded polyurethane foam used in making seat with moulded density 45+/- 2 kg/m ³ . Back is made out of 32 Density Block Foam covered with 14 mm thick 32 density foam sheet (Block foam). Spine bracket made of M.S plate 8 mm Thickness connecting back with mechanism. Armrest top is soft touch polyurethane moulded of 250 to 300 density insert in chrome finish pipe having unique fix "T" shape. The mechanism of the chair have following features : 360° revolving type 3.5 mm Thick CRCA seat plate with 4 mm thick CRCA channel plate synchro Mechanism, Tilt tension adjustable, Single position locking, Plastic component inside the mechanism of Grade - MI 3530 and Epoxy Powder coated 70 Microns with tested 1.2 lacs cycles as per BIFMA Standard The chair have be provided with pneumatic height adjustment which have have stroke of 100 +/- 5 mm The five leg Base is made up of 38 mm dia x 1.2 mm thick tubular with 3.15 mm thick centre hub CRC fabricated chrome finish. It have be fitted with 50 mm dia Twin wheel castor. The size of the base have be - 660 +/- 1 mm pitch-centre-diameter. Load test as per BIFMA compliance.The twin wheel castors have be made of Nylon injection moulded in black colour. Overall dimensions of Chair have be, Width of Chair - 640 mm, Depth of chair 640 mm as measured from base below. Height of back from ground - min 950 mm to max 1050 mm. Seat height -min 455 mm to max 555 mm. Dimensions tolerance / variations have be within +/- 10 mm. (Location : Comm. Room/Sr. Class Office,Comm. Room/Jr. Class Office, Accountant Office)	Nos	Seprate Specification Sheet attached
115	CHAIR TYPE - 04 (STAFF CHAIR) : Providing and supply Med. Back Chair -Upholstered with Leatherette seat have be made up of 12 mm +/- 1 mm thick hot pressed Mr grad plywood on which moulded PU foam mounted .Back is made up moulded PU foam and Inner outer snap fitted covers injection moulded rectangular shape.Spine bracket made of ambose 6 mm Thick M S plate connecting back with mechanism. Armrest top is hard touch polypropylene moulded in ring shape . The mechanism of the chair have following features: 360° revolving type 2.5mm Thk CRCA seat plate with 3.5mm thk CRCA channel plate push back Mechanism, Tilt tension adjustable, Single position locking , Plastic component inside the mechanism of Grade - MI 3530 and Epoxy Powder coated 70 Microns with tested 1.2 lacs cycles as per BIFMA Standard The chair have be provided with pneumatic height adjustment which have have stroke of 100 +/- 5 mm The Base have be made of injection moulded nylon. It have be fitted with 5nos. twin wheel castor - 50 mm diameter. The size of the base be 660 +/- 1 mm pitch-centre-diameter The twin wheel castors have be made of Nylon injection moulded in black colour. Overall dimensions of Chair have be, Width of Chair - 580 mm, Depth of chair -580 mm as measured from base below. Height of back from ground - min 950 to max1050 mm. Seat height -min 440 mm to max 540 mm. Dimensions tolerance / variations have be within +/- 10 mm.	Nos	Seprate Specification Sheet attached
116	STUDY TABLE : 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
117	STUDY TABLE CHAIR : 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
118	Conference Room Table (3900X900X750) : Providing and supply Conference Table - 3900 x 900 x 750 Providing and supply Conference Table Work top considered in 19mm thk ply with laminate Finish. worktop height considered 750mm from ground level. Legs: Open type legs 50x50mm CRCA Pipe Under structure Metal powder coated finish. Metal powder coated under structure considered. Two 6 modul Pop box consider. etc all necessary hardware included.	Nos	Seprate Specification Sheet attached
119	OFFICE TABLE : Table : Providing & fixing office table / staff table having ht of 750 mm Top, with 19mm thk plywood 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. Item includes fixing of drawers and keyboard tray and storage with shutters under table as per drawing. With grooves shown as per drawing. 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, 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
120	SIDE TABLE : Providing and Supplying bed side table Overall Size: Width: 100cm Depth: 45.5cm Height: 45.00cm Material: Top panel of 25 mm and Drawer fronts of 18 mm PVC membrane pressed MDF. Body and drawer panels are made of 18 mm thick Prelaminated Particle Board.All the exposed edges are edge banded with 2 mm thick PVC edge banding Hardware: The high quality hardware used like Roller Slides, Hinges, minifix, dowels is of make Hettich. Packets: 1 packet. Finish: 18 mm thick Prelaminated Particle Board is in Wenge Realistic Pore. 18 mm and 25 mm PVC membrane pressed MDF is in Colarain. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge. Side unit size- 1000x450x450	Nos	Seprate Specification Sheet attached

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121	TV UNIT (Conference Room): Providing & fixing projector drawer unit As per detail drawing and reference image and detail shape & size with require accessories. Top 35 MM th made from 12 mm th IS 303 ply & Laminate finish Storage body is made of 19mm 303 MR Grade ply with 1 mm laminate finish and inner side 1 mm thick laminate finish including require nos of drawer with all type of fittings ,cutout for air cerculation , require fixtures, hardware Hettich/Haffle make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &detailed drawing and instruction of Employer's representative/ Employer.Rate shall incusive require fabrication work considering load capacity of AV equipment.The work shall be done as per the approved 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, adhesives consumable hardware & required SS 304 grade hardware/accessories of approved make.	Sqm	Seprate Specification Sheet attached
122	COMPACTOR : Material & Finishes CRCA Sheet . Material Thickness - 0.8mm shelf & panels, . 25 x 50 mm Pipe x 1.2 mm upright frame . 38 x 75 mm Pipe x 2.0 mm Frame for mobile base . Pre-treatment - Iron Phosphating . Finishes - Powder coated with 50-60 micron thickness. Features Powder coated Aluminium Die cast rotating handle with safety latch . Aluminium Extrusion Track with levelers . Adjustable Dual purpose shelves (4 Nos.) making 5 loading levels, for Box File / Hanging files with 45 kg UDL carrying capacity per shelves . MFC Platform base in 25 mm thickness . Sloping Ramp for user safety & allowing wheel trolley access . Easy to operate locking mechanism fixed on the rotating handle . Optional 2 tone color design for external cladding. Self Suspended Installation which do not require to hack floors. . Smooth Pulley Belt Drive Mechanism. One bay bodies are push type with handle. Twin Mobile 3 bay.Rate shall inclusive of shop drawing ,mock up sample, all materials, loading, unloading, all taxes, transportation, placing at all floors and for all leads,all accessories as described in item description. As approval of architect. Size : 3.00 (L) x 0.45 (D) x 3nos = 1nos	Nos	Seprate Specification Sheet attached
123	Single Bed : Providing and Placing Single Bed – 2060mm L X 900mm W X 720mm H1 * 412 H2 mm with headboard with combination of Tubular Steel, Particle Board and slatted mattress base with headboard. Material: Headboard panels are made of 18 mm thick Pre laminated Particle board. All the exposed edges should be edge banded with 2 mm thick PVC edge banding. Bed Leg Frame Structure consists of metal frames made of M.S. 50 x 25 mm box section in 1.2 thicknesses. Internal pipes are made of 19 x 19 mm box section in 0.9 mm thickness. Headboard pipes are made of 25 x 25 mm box section in 0.9 mm thickness. Mattress holding bkt is made of 0.6 mm CRCA SHEET Hardware: The High quality hardware should are used. Construction: Knock down construction Finish: 18 mm thick pre laminated particle board, Bed leg frame structure is powder coated in shade To thickness of 50 microns (+/- 10) Rest all metals are powder coated in shade to thickness of 50 microns (+/-10) The rate shall include all materials, hardware and labour etc. complete.	Nos	Seprate Specification Sheet attached
124	Providing and Placing Single Bed Mattress, Pillow, Bedsheet with Pillow Cover with 12mm thick prelam mdf back-900x1950x100mm - goldline plus pu form 40 density 300 gsm cottan satin quilt cover.Mattress back putti made of 12mm thick prelam mdf bothside white finish.Kurlon dew pillow 600x400 Fill: Polyester Fibre Quality of shell fabric: 110 GSM cotton satin patti Outer Shell Layer: Cotton Fill Weight (in gms): 650.Bedsheet with pillow 100% cotton of bombay dyeing or eq.	Nos	Seprate Specification Sheet attached
125	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
126	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
127	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
128	Providing and fixing health faucet with 1 m PVC tube and swivel hook including all fittings complete.	Nos	Seprate Specification Sheet attached
129	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
130	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
131	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

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132	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
133	Providing & fixing in position 15 mm C.P. brass pillar cock of best quality with necessary fittings etc. complete.	Nos	Seprate Specification Sheet attached
134	Providing and fixing PVC SWR Nahni trap IS 14735 for drain -100 mm diameter with jail of the following nominal diameter of self cleaning design wit c.I sread down or hinged grating including the cost of cutting and making good the wall.	Nos	Seprate Specification Sheet attached
135	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
136	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
137	Supply, storing, installation and testing liquid soap dispenser with Cp/ SS cap and bracket, fixed to wall with CP brass screw etc. complete. (Make : Hindware / <i>cera/ jaguar/ Grohe</i>)	Nos	Seprate Specification Sheet attached
138	Providing and fixing smartflow hand dryer, 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
139	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
140	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
141	Providing and fixing C.P. brass shower rose with 15mm or 20mm inlet.(A) 100mm dia. Each.	Each	Seprate Specification Sheet attached
142	Borewell : Drilling 300mm dia.pilot hole hydrolic drilling machine & drilling trully vertically (testing by vertically test) bore hole in alluvial strata,any kind of soil incl.sand,murrum,hard murrum,soft rock,hard rock incl.cost of bentonite powder done by mud flushed rottary equipment bore hole should stand at least for 27hrs.incl.lowering the pipes in position as directed and incl.supplying and packing gravel of 4mm to 6 mm size etc. comp. as directed.	Rmt	Seprate Specification Sheet attached
143	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge. (B) 200 mm nominal 6 mm thick	Rmt	Seprate Specification Sheet attached
144	Development of hole by air compressor having capacity 400 cfm/100 psi till sand free discharge of water incl.testing of water supply flow etc. comp. as directed.	Job	Seprate Specification Sheet attached
145	Providing & laying approved make ISI marked HDPE 6Kg / cm2 (Class-3) as per IS:4984:1995 PE-80 to be erected at road crossing on or floor as directed for laying of cable. The pipes as following size of dia & weight per 6 mtr (B) 50 mm inner Dia.	Rmt	Seprate Specification Sheet attached
146	Supplying & Fixing 50 mm dia heavy top bottom piece,G.I.Bend,Coupling,sand guard MS clamp with Nut Bolt etc.complete as directed by EIC.	Set	Seprate Specification Sheet attached
147	Water Analysis test in Govt.approved laboratory incl. all water testing etc. comp. as directed	Nos	Seprate Specification Sheet attached
148	Providing water harvesting pit of 5.50 m Dia well and 2.46 mt x 2.46mt x 4.00 mt size brick masonry well for water logging with excavation in any strata upto four meter depth, filling the pit with B.T. Metal 40 mm in 0.80 mt. depth with 25-40mm kapachi, 0.80 mt. depth and 0.50 mt. depth with coarse sand & charcoal in layers including making P.V.C. line for water inlet etc. as directed with 300mm dia bore 40 mt. depth and 200mm dia UPVC CM type casing pipe as slott 1.5 to 2.0 mm size and ordinary pipe with gravel packing or as directed.	Job	Seprate Specification Sheet attached
149	Providing and constructing filter chamber of size 1.50 x 1.50 x 1.50 mt. as directed including connection rainwater pipes as per detailed as directed by Engineer in charge including cost of labour and material	Nos	Seprate Specification Sheet attached
150	RCC Hume Pipe : 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	Rmt	Seprate Specification Sheet attached
151	Electrical Work : 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	Point	Seprate Specification Sheet attached
152	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	Point	Seprate Specification Sheet attached

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153	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	Point	Seprate Specification Sheet attached
154	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. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Point	Seprate Specification Sheet attached
155	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 [II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Point	Seprate Specification Sheet attached
156	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 [III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Point	Seprate Specification Sheet attached
157	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	Point	Seprate Specification Sheet attached
158	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. (4) TV Co-axial Socket outlet Cat.III	Each	Seprate Specification Sheet attached
159	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. (7) Blank Plate Single Cat.III	Each	Seprate Specification Sheet attached
160	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. (8) Computer RJ-45 socket Cat.III	Each	Seprate Specification Sheet attached
161	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug Accessories For Modular Type	Ea.	Seprate Specification Sheet attached
162	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
163	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 (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	Mtr.	Seprate Specification Sheet attached
164	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 (A) With medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	Mtr.	Seprate Specification Sheet attached

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165	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 (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 4 sq. mm	Mtr.	Seprate Specification Sheet attached
166	Lighting Fixtures ,Fan & other items : 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	Each	Seprate Specification Sheet attached
167	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	Each	Seprate Specification Sheet attached
168	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	Each	Seprate Specification Sheet attached
169	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 % , CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings 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) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (iii) Above 60 to 90 watts Cat-III	Each	Seprate Specification Sheet attached
170	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")	Each	Seprate Specification Sheet attached
171	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
172	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.	Each	Seprate Specification Sheet attached
173	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	Each	Seprate Specification Sheet attached
174	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	Each	Seprate Specification Sheet attached
175	Street Light poles & other items : Supplying & erecting Galvanized M.S pipe post "B" class 88.9 mm O.D 4 mtr. Long duly painted with two coats of aluminium paint complete with metallic base plate of 300 mm x 300 mm x 4mm thick for using as a compound light pole with approx. weight 32 Kg.	Each	Seprate Specification Sheet attached
176	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cm. Deep in below ground level with plinth of 45 cm x 45 cm (or 45 cm dia x 45 cm) high upper ground level with necessary curing and finishing in approved manner. (for 4 & 6 mtr pole)	Ea.	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
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177	Supplying and erecting Pole base suitable for following size of pole fabricated from 4 mm. Thick M.S. sheet with M.S.door having two hinges welded on M.S. flat 25 x 3 mm which is fitted on M.S..base by bolts welded inside the pole base erected with one coat of Red oxide and two coats of Aluminium paint. Outside dimension as per SOR. drawing. (A) Suitable for 90 mm.dia base of pole	Each	Seprate Specification Sheet attached
178	Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E),DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box. (A) 300mm x 200mm x 100mm [deep]	Each	Seprate Specification Sheet attached
179	Providing and erecting street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [a] Single Arm bracket 1 Mtr	Each	Seprate Specification Sheet attached
180	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed.	Ea.	Seprate Specification Sheet attached
181	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (D) 4 pole 440V 40 Amp.	Ea.	Seprate Specification Sheet attached
182	Panel & Switchgear : 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	Each	Seprate Specification Sheet attached
183	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. ICS=100% of ICU only Cat III	Each	Seprate Specification Sheet attached
184	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 Cat III	Each	Seprate Specification Sheet attached
185	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	Each	Seprate Specification Sheet attached
186	PANEL MOUNTING BUSBARS : Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 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 bar, erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. Capacity	Rn.Mtr	Seprate Specification Sheet attached
187	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	Each	Seprate Specification Sheet attached
188	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.Cat- III	Each	Seprate Specification Sheet attached
189	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. (b)40 Amp. Cat- III	Each	Seprate Specification Sheet attached
190	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	Each	Seprate Specification Sheet attached
191	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	Each	Seprate Specification Sheet attached
192	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 (ii)6 way	Each	Seprate Specification Sheet attached
193	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 (iii)8 way	Each	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
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194	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	Each	Seprate Specification Sheet attached
195	Earthing : 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 resistane 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, Sulphar 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. (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.	Nos.	Seprate Specification Sheet attached
196	Cupboards : 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 accesories , 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 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. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory (ii) with 550mm depth	Sq.Mtr	Seprate Specification Sheet attached
197	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
198	Cables : 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
199	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
200	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 (F) 3 1/2 core 120 Sq. mm (70 Sq. mm 1/2 core)	Mtr	Seprate Specification Sheet attached
201	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
202	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
203	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
204	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
205	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
206	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
207	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	Each	Seprate Specification Sheet attached
208	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	Each	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
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209	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	Each	Seprate Specification Sheet attached
210	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	Each	Seprate Specification Sheet attached
211	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	Each	Seprate Specification Sheet attached
212	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. (B) 3 & 1/2 core 35/50 Sq. mm	Each	Seprate Specification Sheet attached
213	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	Each	Seprate Specification Sheet attached
214	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. (E) 3 & 1/2 core 120 Sq. mm	Each	Seprate Specification Sheet attached
215	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	Each	Seprate Specification Sheet attached
216	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.	Each	Seprate Specification Sheet attached
217	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.	Each	Seprate Specification Sheet attached
218	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.	Each	Seprate Specification Sheet attached
219	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. (G) 120 Sq.mm.	Each	Seprate Specification Sheet attached
220	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
221	PIPE & CABLE TRAY : 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
222	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
223	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
224	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
225	Providing and fixing approved make Perforated C type cable tray . Made from sheet steel. The cable tray should be single or double bended as per required and as per IS 2062/1079 and shall be coated with hot dip galvanizing as per IS 2629/4759. with max 17.5% perforation with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erection with necessary support(included) as per Specification and as per instruction of engineer in charge. (3) 150 X 50 X 1.6 mm Thick	Rn.Mtr	Seprate Specification Sheet attached
226	Danger Sign boards : 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.	Each	Seprate Specification Sheet attached
227	Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551	Each	Seprate Specification Sheet attached
228	Meters & Panel Accessories : 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.	Each	Seprate Specification Sheet attached
229	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.	Each	Seprate Specification Sheet attached
230	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	Each	Seprate Specification Sheet attached
231	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	Each	Seprate Specification Sheet attached
232	Supplying and erecting approved make set of indicator lamps of LED type lamp , lens cover, Bakelite holder complete erected with necessary connections.	Each	Seprate Specification Sheet attached

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233	Miscellaneous : 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 .	Each	Seprate Specification Sheet attached
234	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)	Each	Seprate Specification Sheet attached
235	UPS : Supplying and erecting approved make online Un-interruptible Power Supply system comprising flat cum-boost charger with IGBT base rectifier & Inverter & sealed maintenance free SMF batteries. The charger having operating capacity for input 160-270V AC & inverter having output 230V,50 Hz Ac with 0.8 load power factor with battery, over/under voltage output with over load & short circuit protection equipment. The system housed in CRC sheet duly powder coated paint with following power backup.with MS painted batteries stand, 10% Overload capacity for momentary load. (I) 10 KVA 3 - phase with 1Hr Backup	Each	Seprate Specification Sheet attached
236	STABILIZER : Supply, installation, testing & commissioning Servo Controlled Automatic Voltage stabilizer suitable for out put voltage of 415 Volt $\pm 1\%$, 3 Phase, 50 Hz, (air/oil cooled) as mentioned below. The stabilizer shall function satisfactorily even if incoming supply is unbalanced between phases within range of 360-480 VAC. The stabilizer should be constructed in cubical box, with bidirectional wheels for easy handling, necessary monitors and user's controls on front panel such as indication, alarm, volt meter and selector switch for measuring input and out put voltage, Auto / Manual selector switch, Raise/Low push buttons etc. Suitable capacity termination strips and bus bars for incoming and out going cable should be Terminated as per SLD. All three phases shall be independently monitored and corrected. Following protections and indications shall be incorporated Over Voltage / Under Voltage, Single Phasing, shunt trip with electronic output sensing unit Servo Controlled Automatic Voltage Stabilizer (Out put 415 $\pm 1\%$), Included Change over switch for bypass. (A) 100 kVA Oil Cooled, Indoor type	Each	Seprate Specification Sheet attached
237	LIGHTNING ARRESTER : SITC of Vertical Air Termination Solid aluminium with Base- 10 mm dia and 1000 mm long. Air Termination Base tested for conditioning, Ageing Test & Lightning impulse current withstand test: 100 kA of 10/350 μ s waveform in an accredited Third party laboratory as per 6.3 & 6.4 of IEC 62561-1 2017 protocol with MAST 34mm dia 3000 mm long- Cold Galvanized	Each	Seprate Specification Sheet attached
238	SITC of 8 mm dia solid Aluminium Conductor for roof top mesh grid and tested as per IEC 62561- 2 conducted in the Govt. accredited thirty party laboratory to meet the requirement of IS/IEC 62305 with Required Accessories - Aluminium Holding clamp at every 1 mtr distance, Aluminium/SS cross splicer at every crossing of Alu. conductor, Expansion piece with connectors at every 20 mtr distance, Aluminium straight Splicer to connect conductors. All Accessories should be tested as per IEC 62561-1 2018 Cl. 6.3 for conditioning & Ageing Test & 6.4 for Lightning impulse current withstand test: 100 kA of 10/350 μ s waveform(Ageing & Electrical test) conducted in a sequence manner & tested in the Govt. accredited Third party laboratory to meet the requirements of IS/IEC 6230	Mtr	Seprate Specification Sheet attached
239	SITC of 14.2 mm dia 3 mtr long Earth electrode of High tensile steel electrode with 250 micron copper bonding & 1 bag of Carbon fill Based environment friendly backfill tested as per IEC 62561-7 in NABL accredited Laboratory and suitable stainless Steel double sided clamp. Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) & 260 mm (height).	Per Set	Seprate Specification Sheet attached
	<p>[1] GEAR LESS LIFT DRIVE (MRL) comprising of High Starting torque Lift 3 phase 440 V A. C. Permanent Magnet Synchronous motor of proper rating with high efficiency shall be used.</p> <p>[2] Micro processor based / PLC, ACVVVF, vector control drive with encoder feedback closed loop system shall be used for lift car and door operation which shall be full collective selective operation hall call demand response, UP/DOWN hall stops, Main, Up/ Down Contactor with overload and phase reversal relay and safety controls.</p> <p>[3] Car with M S platform with bracings of adequate size and to sustain the impact load cabin + passenger with safety factor of fire for steel and side panels of Stainless steel of sheet of grade 304 duty. Car ceiling will be S.S. finishes with aesthetic appearance with LED ceiling lights. Car flooring shall be of anti skid PVC with choice of colour of engineer in charge. Car doors shall be of stainless steel grade 304, hairline finish with centre opening / telescopic automatic doors. Car panel will also be S.S. 304 finished with emergency stop device, mechanical door safety device, facility of auto/ attended mode. All car panel buttons and all floor switches must be with brail language as per lift act.</p> <p>[4] All landing doors must be fire rated for 2 hour shall be fully automatic centre opening/ telescopic opening made of hairline finish steel grade of 304 with key holes and infrared curtains with Unlocking facility from outside</p> <p>[5] Appropriate battery operated emergency light in the car along with alarm switch shall be provided. Also, Emergency Light & Fan should start immediately without any Time Delay as soon as power fails.</p> <p>[6] Digital scrolling indicator system for up-down arrow along with floor position indicator shall be provided inside the car and at all floors.</p> <p>[7] Full height infra red curtain with multiple cross / crossing light beams shall be provided.</p> <p>[8] Automatic Rescue Device (ARD) shall be provided accordingly of passenger capacity with Manual Rescue Operation (Manual Cranking Facility).</p> <p>[9] Audio visual indication in the lift car showing over loading shall be provided such that doors kept open till excess load is removed.</p> <p>[10] Spring buffers/PU Buffers shall be provided.</p> <p>[11] Car fan as per passenger capacity with automatic sleep timer shall be provided.</p>		Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
240	<p>[12] Voice annunciator with suitable music shall be provided in lift car.</p> <p>[13] Self diagnostics system for operational and safety parameters shall be provided in control panel.</p> <p>[14] Mechanical over speed governor with governor calibration as per actual site parameters and submission of calibration certificate submission, door key holes in the floor doors, fireman switch shall be provided.</p> <p>[15] Lift machine hoisting arrangement in the lift machine room and monkey ladder for lift pit should be provided by the lift agency, along with the other steel structure works, foundations for the machine etc...</p> <p>[16] In the hoist way fascia plate shall be provided without any extra cost, where ever required as / if directed by engineer in charge.</p> <p>[17] Permanent wiring with necessary safety devices like RCCB in all circuit, Over Voltage Under Voltage protection and THD eliminator in circuit for lift machine room and lift well with proper numbers of light points, with fixtures, exhaust fan and plug points shall be provided by the agency. Only 3 phase Power Supply shall be made available by department in lift machine room. Necessary Earthing as per Lift Act/Rules shall be arranged by Lift Agency.</p> <p>[18] Any civil/ electrical works for additional and alteration in lift shaft and machine room related to erection of lift shall be made by lift agency without any extra cost. (granite/marble fixing around all landing door openings are not in lift agency's scope.)</p> <p>[19] Agency has to provide all working drawings and documents and liaison services for obtaining all necessary permission from lift inspector and other authorities.</p> <p>[20] acrylic transparent licence/display A4 size holder in lift car</p> <p>[21] Car Panel Operating Buttons with floor position indicator/buttons must be of Auto Glow type clearly visible when view from inside cabin.</p> <p>[22] For Physically Handicapped person Full Length Handrails of hairline finish steel grade of 304 should be provided at appropriate height on the Rear & Side Wall Panels in Lift Car.</p> <p>DESCRIPTION OF LIFT : 8 / 10 Passengers, Ground plus 2 upper floor with Rated Speed of 1.0 m/sec., (C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.</p>	Each	Seprate Specification Sheet attached
241	<p>Supplying & erecting approved make Lift Announcing solid state system in the Passenger/ Stretcher lifts having AC2/ACVV/ACVF drives & automatic doors only. The system comprising following features & facilities.</p> <p>(i) Announcing floor message, message to close period.(ii) Announcing 'Emergency Message' when lift is stuck between floors due to power failure or any other reason.</p> <p>(iii) Instrumental Music between floor announcing.(iv) Announcement in English / Hindi & Gujarati Languages..</p> <p>(v) Flexible to accommodate special per-programmed message such as name of the building /office.(vi)Volume adjustment control</p>	Each	Seprate Specification Sheet attached
242	<p>Providing & erecting approved make overload non-start feature & overload warning Indicator system in the lift with making use of sound isolated floating platform & micro switches on SI frame to get sensation of live load inside lift cage at any given moment, with provides new fixtures of overload warning inside lift cage with new relay in the existing control panel to activate 'Overload Non-Start Function with carrying out additional wiring including laying of new travelling cable, include minor civil work & without changing the existing capacity speed stops, travel & operation of the desired lift</p>	Each	Seprate Specification Sheet attached
243	<p>SPLIT AIR-CONDITIONERS : Providing and erecting Inverter based approved make split air-conditioning unit consisting of condensing unit with variable speed fan motor, inverter type hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drain PVC pipes suitable for (cost includes Eco Friendly green gas charging and 15A plug top & Remote Control & MS Stand) with necessary core cutting. (2)For ISEER Range (KWH/KWH)(4.0 to 4.49) (B) for 1.5 ton capacity- Premium Cat.</p>	Each	Seprate Specification Sheet attached
244	<p>SPLIT AIR-CONDITIONERS : Providing and erecting Inverter based approved make split air-conditioning unit consisting of condensing unit with variable speed fan motor, inverter type hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drain PVC pipes suitable for (cost includes Eco Friendly green gas charging and 15A plug top & Remote Control & MS Stand) with necessary core cutting. (2)For ISEER Range (KWH/KWH)(4.0 to 4.49) (C) for 1.7 to 2 ton capacity-Premium Cat.</p>	Each	Seprate Specification Sheet attached
245	<p>WATER COOLERS : 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.</p>	Ea.	Seprate Specification Sheet attached
246	<p>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 [B] 25 Ltr / Hr with 30 Ltr. Storage Tank</p>	Ea.	Seprate Specification Sheet attached
247	<p>LIASONING WORK : Providing Power Connection Requirement of 60 KW Including Electrical Connect Power Charges , Inspector Approval . Liaisoning work for additional load for requirement, electrical power connection charges and inspector approval for power</p>	JOB	Seprate Specification Sheet attached
248	<p>ELV WORK : SITC of ABS back box [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]</p>	Each	Seprate Specification Sheet attached
249	<p>SITC of Face Plate - Single (Keystone Jack,square) [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]</p>	Each	Seprate Specification Sheet attached

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Seprate Specification Sheet			
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250	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
251	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
252	Supply, installation, testing, and commissioning (SITC) of a 9U, 19-inch standard floor-mount rack . The rack must be made of mild steel with a powder-coated finish and include lockable front and rear doors (front door typically glass or perforated, rear door perforated), lockable and removable side panels, and a welded frame construction for stability.	Each	Seprate Specification Sheet attached
253	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.	Each	Seprate Specification Sheet attached
254	SITC of PIGTAIL LC SM SIMPLEX LENGTH- 1m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached
255	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]	Each	Seprate Specification Sheet attached
256	Supply, installation, and commissioning of a 24-Port 10/100/1000 Mbps Layer 2 Managed Gigabit Switch with 2 SFP uplink ports, suitable for standard 19" rack mounting. The switch shall support VLAN, QoS, STP/RSTP/MSTP, SNMP, and have a minimum switching capacity of 56 Gbps. It must include all necessary accessories (mounting kit, power cord, etc.), be UL/CE/FCC Class A certified, and have an internal power supply. Scope includes delivery, rack installation, configuration, testing, and documentation. Minimum 3-year OEM warranty required.	Each	Seprate Specification Sheet attached
257	SITC of PATCH CORD LC-LC SM DUPLEX LENGTH- 3m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached
258	SITC of O. F.Cable 06F Outdoor - Armoured Unitube SM - HDPE Sheath [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Mtr.	Seprate Specification Sheet attached
259	Supply & Installation OFC Patch Cord [LC - LC, Single Mode, 01 Mtrs]	Each	Seprate Specification Sheet attached
260	Supply & Installation OFC Fiber Module [01G SFP, Single Mode]	Each	Seprate Specification Sheet attached
261	Supply, installation, and configuration of a compact firewall device suitable for securing the network. The firewall shall provide essential security features including stateful packet inspection, basic intrusion prevention, URL filtering, and VPN support for secure remote access. It must efficiently handle the expected network traffic without impacting performance and support multiple user profiles and security zones. The scope includes delivery, physical installation, integration with existing network infrastructure, configuration according to library security policies, testing, and commissioning. Training for basic operation and administration shall be provided. The device shall come with a minimum one-year warranty and technical support from the OEM.	Each	Seprate Specification Sheet attached
262	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.	Each	Seprate Specification Sheet attached
263	CCTV : Supply, installation, testing, and commissioning of 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	Each	Seprate Specification Sheet attached
264	Supply, installation, testing, and commissioning of a 5 MP STQC-certified bullet-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 per contract specifications.	Each	Seprate Specification Sheet attached
265	Supply & Installation CCTV Back Box [IP65]	Each	Seprate Specification Sheet attached
266	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
267	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
268	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]	Each	Seprate Specification Sheet attached
269	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.	Each	Seprate Specification Sheet attached
270	SITC of PIGTAIL LC SM SIMPLEX LENGTH- 1m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached

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271	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]	Each	Seprate Specification Sheet attached
272	SITC of PATCH CORD LC-LC SM DUPLEX LENGTH- 3m [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached
273	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.	Each	Seprate Specification Sheet attached
274	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	Each	Seprate Specification Sheet attached
275	PA SYSTEM : 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]	Each	Seprate Specification Sheet attached
276	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	Each	Seprate Specification Sheet attached
277	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.	Each	Seprate Specification Sheet attached
278	Supplying & erecting Amplifier having following specification: Power Output :250W (RMS) (300W Max.) inputs : 6 Misc. & 2 Aux. frequency Response :50-1500HZ I3db Tone Controls :Cut & Boost type LED Meter :5 LED Arrays The amplifier suitable to operate 240V A.C.& 24volt D.C. (Battery) with automatic changeover from AC to Battery operation, duly protected by wrong Battery Polarity connections. [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached
279	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
280	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	Mtr.	Seprate Specification Sheet attached
281	FIRE DETECTION SYSTEM : Supply & Installation Fire Alarm Panel Addressable Type with Two Loop & With battery Backup	Each	Seprate Specification Sheet attached
282	Supply & Installation Multisensor Detector	Each	Seprate Specification Sheet attached
283	Supply & Installation Rispense Indicator	Each	Seprate Specification Sheet attached
284	Supply & Installation Manual Call point	Each	Seprate Specification Sheet attached
285	Supply & Installation Hooter	Each	Seprate Specification Sheet attached
286	Supply & Installation Signal Module	Each	Seprate Specification Sheet attached
287	Supply & Installation Isolator Module	Each	Seprate Specification Sheet attached
288	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 (A) With medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	Mtr.	Seprate Specification Sheet attached
289	EPBX SYSTEM : SITC of ABS back box [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached
290	SITC of Face Plate - Single (Keystone Jack,square) [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached

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291	SITC of Digital/ PCM/ TDM EPABX System having SMT design, system with flexible universal slots. Inbuilt Auto attendant facility, Minimum 150 Nos. conference, Analog extension line, Calling GSM, E&M line, PRI/ EI & VOIP program me through Analog telephone digital key from Ethernet, public address cord, shall have unrestricted simultaneous dialing facility, QSIG protocol on PRI, 95/ STD/ ISD/ Local-Locking, Class of Service, Quick Dial-Single Digit dialing of any two external number, Once only ring device, Chairman/ Secretary - Do not disturb Facility, Power Down Mode, Hot Line, Hot Outward Dialing, Day Night Mode, Auto Call Back, Barge-in, Call Pick Up,& Call Transfer, Call transfer while Ringing with Voice Guide System, (DISA), Caller ID (CLI), CLI Base ECF, CLI Base routing Internet Ready Port, External Music Port, Call Budgeting, Call Most Calculation (ASMDR), DID Direct Inverse Dialing, External Music Input, Fax Homing, Global Directory Printing with following capacities [Approved by Competent Authority i.e. not Below the rank of Executive Engineer] [A] No of Extension 16, No of Junctions 6, 8 Port IP Resource in-built, 4 Port Web base Video Conferencing, No of expandable ports : 48, Operators Console - 01 Compatible : ISDN	Each	Seprate Specification Sheet attached
292	Providing & erecting main Distribution (MDF) indoor type , back mounted frame as per DoT standard approved with krone strips (b) Suitable for 20 pair	Each	Seprate Specification Sheet attached
293	Supplying & erecting push button type telephone instrument having speaker phone Caller ID & speaker phone with one touch memory (min.6 nos.)& 99 memories with display system Single line [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Each	Seprate Specification Sheet attached
294	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
295	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
296	Fire Fighting Work : 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 aggangement 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 IS 325 1978 (up to date) 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 Anti Vibration pads (4 Nos., heavy duty). Grouting bolts to be provided and installed by vendor at his cost Flexible Coupling and coupling guard for direct coupling of pump and motor. Drain Pipe with Valve Main Fire Pump Discharge : 1280 LPM Pumping Head : 40 M Pump Size : 30 HP Rate should included interconnection cables and Cable box if reqd for cable conn. to motor.	set	Seprate Specification Sheet attached
297	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 180 LPM against total head of 30 Mtr 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. Drain pipe with valve (25 mm dia) Jockey Pump :- Discharge : 180 LPM Pumping Head : 30 MTR Pump Size : 10 HP Rate shall include inter connecting cables and cable box if reqd for cable conn to motor	set	Seprate Specification Sheet attached

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298	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
299	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
300	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
301	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
302	Supplying,Installing, testing & commissioning of Pressure Switch required accessories	Each	Seprate Specification Sheet attached
303	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
304	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
305	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
306	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
307	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
308	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
309	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
310	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
311	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
312	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

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
313	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
314	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
315	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
316	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
317	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
318	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 allen key suitable for housing 1 nos. hose pipe, 1 no. Branch pipe & nozzle spanner.	Each	Seprate Specification Sheet attached
319	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
320	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
321	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern aluminium short branch pipe	Each	Seprate Specification Sheet attached
322	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
323	Supply, installation, testing and commissioning of SS Ball Valve. (a) 25mm dia	Each	Seprate Specification Sheet attached
324	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
325	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	Each	Seprate Specification Sheet attached
326	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads. (a) Pendent Sprinkler 57°C - standard response	Each	Seprate Specification Sheet attached
327	Supply, installation, testing and commissioning of ABC type Fire Extinguisher of 6.0 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	Each	Seprate Specification Sheet attached
328	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	Each	Seprate Specification Sheet attached
329	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
330	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
331	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
332	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 wire	MTR	Seprate Specification Sheet attached
333	Supplying,Installing, testing & commissioning of fire alarm and pump trigger system as per requirement and specification consisting of following items. 2 core 1 sq.mm cu. Flexinble wire	MTR	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.			
Seprate Specification Sheet			
Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
334	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 suppoort).	kg	Seprate Specification Sheet attached
335	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
336	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: Fire lift size: 4" X 12"	Each	Seprate Specification Sheet attached
337	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: Fire Hydrant: 4" X 12"	Each	Seprate Specification Sheet attached
338	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: "DCP" Extinguisher: 8" X 4"	Each	Seprate Specification Sheet attached
339	Supplying of AUTOGLOW Signages in Block / Small Letters of Specified Sizes: "CO2" Extinguisher: 8" x 4"	Each	Seprate Specification Sheet attached
340	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
341	Coating & Wrapping for underground pipe Wrapping Tape(150mm wide x 4mm thick)	sqm	Seprate Specification Sheet attached
342	Plumbing Work : Water Supply : 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
343	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
344	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
345	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
346	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
347	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: 15 mm	Nos.	Seprate Specification Sheet attached
348	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
349	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
350	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
351	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
352	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
353	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: 50mm	Nos.	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.

Seprate Specification Sheet

Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
354	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
355	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. (D) 40mm (waste water for Sink)	Rmt	Seprate Specification Sheet attached
356	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
357	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	Nos.	Seprate Specification Sheet attached
358	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.	Nos.	Seprate Specification Sheet attached
359	Providing and fixing in position cowl went to pipes. (C) 100mm dia	Nos.	Seprate Specification Sheet attached
360	Providing and fixing in position cowl went to pipes. (B) 75mm dia.	Nos.	Seprate Specification Sheet attached
361	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. screed down or hinged grating including the cost of cutting and making good the walls. (for Balcony)	Nos.	Seprate Specification Sheet attached
362	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
363	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.	Nos.	Seprate Specification Sheet attached
364	Supplying and fixing C.I. cover 300mm x 300mm without frame for Gully trap (Standard pattern) te weight of cover to be not less 4.53 Kg.)	Nos.	Seprate Specification Sheet attached
365	Constructing Brick masonry road gully chamber 500mm x 450mm x 600mm including 500mm x 450mm C.I. horizontal grating wih frame complete.	Nos.	Seprate Specification Sheet attached
366	Constructing Brick masonry road gully chamber 450mm x 450mm x 775mm with vertical gating complete.	Nos.	Seprate Specification Sheet attached
367	C.I. Cover without frame 455mm x 610mm	Nos.	Seprate Specification Sheet attached
368	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.	Nos.	Seprate Specification Sheet attached
369	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/ Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal 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 slab 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.	Nos.	Seprate Specification Sheet attached
370	C.I. Cover without frame 600mm x 850mm	Nos.	Seprate Specification Sheet attached
371	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.	Nos.	Seprate Specification Sheet attached
372	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1- cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:3 (1-Cement : 3-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement :2- Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.)(A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5-Coarse sand) (1) A type depth 0.90 Metre for 150mm diameter sewer.	Nos.	Seprate Specification Sheet attached
373	(I) Extra rate for constructing B.B. masonry for every additional depth of 0.1M. or Part thereof over item No.24.27 (I) for depth from 0.9M to 1.5M.	Nos.	Seprate Specification Sheet attached
374	Supply, Instaltaion, Testing & commissioning ofrain water "KHURRAH" size 300 x 300 mm required depth with lead flashing around rainwater pipe with one piece lead sheet of 3 mm thick set on a layer of cold bitumen. Including heavy duty CI grating complete as required. complete any other item required to provide standard commissioning and erection as approved by Architects / Consultants. Make and model with all necessary accessories subjected to requirement of Architect/Client/PMC at the time of execution.	Nos.	Seprate Specification Sheet attached

Name Of Work : Reconstruction of Archaeology Office Building at Bhuj.

Seprate Specification Sheet

Sr. No.	Item of Work	Unit	Specification as per General Specification book aprooved by R&B Department for Building uploaded here with/Separate Sheet Attached
375	S.I.T.C. submersible pump set for bore of 200 mm. dia. or more having 3 phase motor capacity about 50-55 H.P discharge capacity having . Lifting and Lowering taken extra. (A) (13 Stage) 100 to 400 L.P.M. discharge at the head 182 to 265 mtrs. suitable for 80 mm dia. Delivery pipe Cat.III	NO	Seprate Specification Sheet attached
376	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. 200 lpm., 40mtr., (To GROUND FLOOR TO TERRACE TANK) FOR DOMESTIC WATER	Set	Seprate Specification Sheet attached
377	Supply, installation, testing & commissioning of Water level controller for the OH tanks with switches, hardwares, interlocking with panel, etc. For Under Ground tank & OH Tank	Set	Seprate Specification Sheet attached
378	Fire NOC/Approval : 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.	Job	Seprate Specification Sheet attached
379	Credit Value for Door with Frame	Each	Seprate Specification Sheet attached
380	Credit Value for Window with Frame	Each	Seprate Specification Sheet attached
381	Credit Value for Flooring	Sqm	Seprate Specification Sheet attached
382	Credit Value for Chair	Each	Seprate Specification Sheet attached
383	Credit Value for brick	Cum	Seprate Specification Sheet attached
384	Credit Value for steel	Kg	Seprate Specification Sheet attached
385	Credit Value for Bib Tap / Pillar Cock	Each	Seprate Specification Sheet attached