

# SPORTS AUTHORITY OF GUJARAT

## NAME OF WORK: DEVELOPMENT OF LIBRARY AT JHAGADIYA, DIST: BHARUCH

### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
1	2	3	4
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (A) Loose or soft soil	Cum	As per "General building work technical specifications Book" Sec-4, Cl.4.0.0.(A) ,Page No.-29
2	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	Cum	As per "General building work technical specifications Book" Sec-4, Cl.4.0.0.(B) ,Page No.-29
3	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth upto 300mm removal of stumps of tress cut earlier and disposal of unserviceable materials. A) By Mechanical means in area of light jungle.	Hector	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
4	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material Beyond 60 cm girth upto and including 120 cm girth	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
5	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	As per 'General Building Work Technical Specifications' booklet, Sec-20, Item No. 20.11.(iii), Page No. 148
6	Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-20, Item No. 20.3., Page No. 147
7	Dismantling steel work including distempering and stacking the materials with all lead and lift.	Kg	As per 'General Building Work Technical Specifications' booklet, Sec-20, Item No. 20.43., Page No. 150
8	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.	Nos	As per 'General Building Work Technical Specifications' booklet, Sec-20, Item No. 20.49.(i), Page No. 150
9	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-20, Item No. 20.23., Page No. 148
10	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	As per 'General Building Work Technical Specifications' booklet, Sec-4, Item No. 4.12., Page No. 35
11	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-4, Item No. 4.24., Page No. 35
12	Add extra for Disposing off the excavated stuff of above items for lead of 0.5 k.m. to 3 k.m	Cum	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
13	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-4, Item No. 4.0.0.4., Page No. 35
14	Carring out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Consentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 % concentration inclusive of one litre chemical emulsion appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S (The Product Defomance Shall Give Guarantee for 5 Years)	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
15	Providing and laying cement concrete 1:2:4 (1- Cement : 2Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (B)Independent piers, columns, and pillars, upto floor two level	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.3.13., Page No. 40
16	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:6 (1- Cement : 6 –fine sand)(B) Conventional	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-6, Item No. 6.13.(A), Page No. 51
17	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete. R.C.C. Footing	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.3., Page No. 47
18	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete. Plinth Beam	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.3., Page No. 47
19	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and on solidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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20	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete GRADE SLAB	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
21	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. Ground Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
22	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. First Floor Column	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
23	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. + Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement. Second Floor Column	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
24	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. + Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement. Stair Cabin Column	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
25	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Ground Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
26	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. First Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
27	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Second Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
28	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Stair Cabin Beam	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
29	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Ground Floor Slab	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
30	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. First Floor Slab	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
31	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Second Floor Slab	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
32	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Stair Cabin Slab	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
33	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Ground Floor Sill Band & Lintel	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
34	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. First Floor Sill Band & Lintel	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47

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35	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Second Floor Sill Band & Lintel	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
36	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. G.F to F.F Stair	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
37	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. F.F to S.F. Stair	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
38	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. S.F. to T.F. Stair	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
39	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Ground Floor Chhajjah	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
40	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. First Floor Chhajjah	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
41	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Second Floor Chajja	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
42	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. Third Floor Chhajjah	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47
43	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete. For all floors	Kg	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.4.11, Page No. 45
44	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in superstructure above plinth level upto floor two level in Cement Mortar 1:6 (1-Cement:6-fine sand) (B) Conventional in Ground Floor and First Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-6, Item No. 6.13(A), Page No. 51 & Item No. 6.20, Page No. 54
45	(i) Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand ) in superstructure above plinth level upto floor two level. (B) Conventional in Ground Floor and First Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-6, Item No. 6.30.II.(A), Page No. 54
46	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in superstructure above plinth level upto floor two level in Cement Mortar 1:6 (1- Cement : 6 -fine sand) (B) Conventional in Second Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-6, Item No. 6.13(A), Page No.51 & Item No. 6.20, Page No.54
47	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in superstructure above plinth level upto floor two level in Cement Mortar 1:6 (1- Cement : 6 -fine sand) (B) Conventional in Stair Floor	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-6, Item No. 6.13(A), Page No.51 & Item No. 6.20, Page No.54
48	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sq cm for super structure above plinth level up to floor two level in cement mortar 1:5 ( 1 cement : 5 fine sand ) complete as per Technical Specification	Cum	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
49	Providing 10mm thick cement plaster in single coat on brick/concrete Ceiling for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) Ground Floor and First Floor	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-17, Item No. 17.58 (II), Page No. 120 & Item No. 17.91, Page No. 121
50	Providing 10mm thick cement plaster in single coat on brick/concrete Ceiling for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) Second Floor	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-17, Item No. 17.58 (II), Page No. 120 & Item No. 17.91, Page No. 121

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51	Providing 10mm thick cement plaster in single coat on brick/concrete Ceiling for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) Third Floor	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-17, Item No. 17.58 (II), Page No. 120 & Item No. 17.91, Page No. 121
52	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) Internal Wall Plaster for Ground Floor and First Floor	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
53	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)Internal Wall Plaster for Second Floor	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
54	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)Internal Wall Plaster for Third Floor	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
55	Applying two coats of acrylic lapy ( 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	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
56	Wall painting (three coats) with plastic emulsion paint on Ceiling of approved brand and manufacture on undecorated Ceiling surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-18, Item No. 18.57, Page No. 136 & Item No.18.59, Page No. 137 & Item No. 18.60, Page No. 137
57	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1cement : 4 coarse sand ), furrowing the under layer with scratching tool,applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
58	Extra for washed grit plaster on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
59	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge : 20 mm wide and 15 mm deep groove	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
60	40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar Red sand stone	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
61	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer in Charge	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
62	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 – coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete (A) 25mm thick	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-14, Item No. 14.43.(A), Page No. 98
63	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm(average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit For Toilet	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
64	Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" 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	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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65	Providing and laying 18mm thick granite of specified size colour, shade and of approved make, in Wall, column cladding, risers of steps, dedo and , sill and jambs of door, window & ventilation frame with mini. two coat of construction chemical and as per manufacture specification incl. rubbing and polishing, rounding edge and All joints filled with coloured cement putty as per architect detail and wiped to give sharp joints with flush pointing and washed clean with acid As per drawings and design supplied by architect and instruction given by authority and E.I.C. incl. cost of steel fastener of approved make at every 1/3 span if required etc. complete colour and shed as approved by architect engineer in charge.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
66	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs,balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. b) Laying of 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
	#REF!		
67	Providing & laying broken china mosaic flooring on top of integral waterproofing using small broken chips of white/colour glazed tiles set in crazy pattern, as desired by Architect, in cement mortar laid to required slopes and simultaneously filling in remaining top joints in the waterproofing layer and tamped with wooden block to get smooth even surface to required slope, filling the joints with cement grout , cleaning the surface on completion and curing etc. complete. The work shall be carried out in a workman like manner to make the give a guarantee on stamp paper for the performance for a period of ten years.The work shall be measured in square meter of the actual area laid and no extra shall be paid for vatahs, rounding at junction of wall and floor and around water spouts, water outlets etc.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
68	Providing and fixing stainless steel railing 50mm dia.(16 gauge-Grade 304) TOP RAIL with 1 mtr c/c VERTICAL SUPPORT 37.5mm dia.(16 gauge-Grade 304), 3 NO. 25mm dia.(16 gauge-Grade 304) HORI. MEMBER .for up to 1.2mt height at any floor, including welding, grinding, buffing, polishing and making curvature (wherever required) ,for staircase on the side of waist slab with suitable arrangement as per drwaing (for payment purpose only hand rail Running meter will be consider, and other stainless steel members shall are inclusive of fixing accessories such as Baluster, supports, horizontal members, nuts, bolts, fasteners etc.)Rate includes for all lead & lift. etc, complete as per drawings and design supplied by architect and instruction given by authority and E.I.C.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
69	Providing and fixing structural glazing with using the 17 micron anodised of approved colour alluminium section as transium, mullium of size 63mm x 38mm x 2 mm with using 6 mm thick reflective structural glass of approved make, colour, toughned and shade and fixed with silicone sealant and spacer tap and at corner sealed neoprene foam dust and air sealed gasket mirred including scaffolding, cleaning of glass etc.complete at all heights anf lifts with all necessary fitting and fixtures, anchore fasteners, necessary m.s. or aluminium brackets, suitable design for openable window as per architectural drawing and as directed by engineer-in-charge. Grooves between the glasses to be filled with sealant of dow corning - structural sealant 995, weather sealant 789. The entire façade should be water proof. The mullions are to be connected to bracket by ss-304 nut bolts. Measurement shall be given as per actual execution of the work.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
70	Providing & fixing 12mm thick toughened glass door with enox fittings & also with floor spring of enox & Locking system .note:- flooring cutting covered in this item so no extra claim for vitrified / kotah/Granite flooring.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
71	Providing and fixing 38mm thick shutter flush door shutters, solid core finshed with 1mm thick laminate on both side with guled PVC edge beading as patten & Selection hinges, Hydraulic Pelmet Arm Door Closer with Double Speed for Heavy Door/Soft Door Closer (ISO 9001 Certified) (Capacity 120 Kg, Silver) with necessary screw,s.s handle,s.s Aldrop,s.s Stopper for door 120CM x 210CM- D1 Single Shutter	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
72	Providing and fixing 38mm thick shutter flush door shutters, solid core finshed with 1mm thick laminate on both side with guled PVC edge beading as patten & Selection hinges, Hydraulic Pelmet Arm Door Closer with Double Speed for Heavy Door/Soft Door Closer (ISO 9001 Certified) (Capacity 120 Kg, Silver) with necessary screw,s.s handle,s.s Aldrop,s.s Stopper for door 90CM x 210CM- D2 Single Shutter	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
73	Supply and professional installation of Toughened safety glass (12mm thick) sliding door system, Heavy-Duty Sliding Track System, Patch Fittings, Handles, Locks, Consumables (Screws, Fasteners, Silicon Sealant, etc.) Complete with application of frosted film as per approved by Engineer in charge.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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Sr. No.	Description	Unit	Item No / Page No of the applicable specification
74	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter having extra reinforcement on sides & edges in polish finish. The core of the shutter & frame is to be filed up with injected polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & finitres. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & alluminium S.S fixtures & fastenings & fastener sleeve.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
75	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt , horizontal Three track member size 92mm x 31.75mm x 1.30mm,@Wt.1.07 Kg/mt , vertical member of size 92mm x 31.75mm x 1.50mm @ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mmx1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt/ with 5mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
76	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm @ Wt. 0.643 Kg/mt with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
77	Acrylic Signages (Name Plate 150 mm high) Providing and fixing ACRYLIC SIGNAGES of 10 mm Acrylic name plate with vinyl cut work on top of brand Ptglass, astari etc., with all laser and cnc work, including all material, labour, studs for mounting and other hardwares, waste of materials etc. and complete the work satisfactorily as per instruction of Architect or engineer-in charge.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
78	Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like	Quintal	As per 'General Building Work Technical Specifications' booklet, Sec-11, Item No. 14.4.(A), Page No. 80
79	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 conductivity0.043° 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' 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 pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge.Note:- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tiles shall have NRC. Value of 0.50 (Minimum) for Fine fissured/Spintone/Cosmos and 0.75 NRC for Globe, light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity. 0.043°	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
80	Providing cement vata (10cm. x 10 cm. size) quarter round in cement mortar 1:1 including neat cement finishing, watering etc. complete.	Rmt	As per 'General Building Work Technical Specifications' booklet, Sec-17, Item No. 17.0.0.1, Page No. 124
81	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	As per 'General Building Work Technical Specifications' booklet, Sec-10, Item No. 10.100.(A), Page No. 75

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### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
82	Applying priming coat over new steel and other metal surface after and including preparing the surface by thoroughly cleaning, oil, grease, dirt and other foreign matter and scoured with brushes fine steel wood, scrapers and sand paper with ready mixed priming paint brushing red lead.	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-19, Item No. 19.12., Page No. 139
83	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 cleaning the surface of all dirt, dust and other foreign matter.	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-19, Item No. 19.7., Page No. 138
84	Providing & Fixing the Chikenmesh - 20 guage (Crimp Jali) of approved size applying between the RCC and masonry junction in proper line, level and plumb with all material, labour, tools, tackles and equipment including fixing the jali with nails, etc complete as directed by the Engineer-in-charge.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
85	Providing and fixing in position collapsible steel shutters with vertical channels 20 x 10 x 2 mm braced with flat iron diagonals 20 x 5 mm size with top and bottom rails of Trin 40x 40 x 6 mm with 38mm dia, steel pulleys complete with bolts, nuts, locking arrangements, stoppers handles including applying a priming coat of red lead paint	Quintel	As per 'General Building Work Technical Specifications' booklet, Sec-11, Item No. 11.6., Page No. 81
86	UNDER GROUND WATER TANK 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, concrete work for top, bottom slab – 150mm thick & side pardi – 380mm (150mm RCC Wall, 230mm Brick masonry wall), column, beam for under ground water tank item incl. Necessary excavation & refilling the available earth, 15 cm thk 1:2:4 for bedding of concrete, 15 mm thk. water proofing cement plaster in C.M. 1:4 with smooth finishing & Glazes tile Dedo, vata, 150mm 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 arrangement, steps etc. comp as per structural detail drawing Including thermo Mechanically treated bars (TMT BARS) Fe 500D as directed by Eng-in-charge. (The Product Performance Shall Carry Guarantee for 5 Years Against Any Leakage)	Liter	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
87	Providing and placing and fixing 12 mm thick glass with necessary jointing, fitting and fixtures, Rubber gasket for glass beading, half round Edge Labour Charges, Structural steel for framing, hoisting steel rope, Gusset plate all required to fitting labour charges structure etc. Erection Transport Etc Completed. As per Architectural drawing and direction of EIC	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
88	Providing and fixing Precast [Max. in 5" thickness, GRC Type decorative & Curved] controlled cement concrete R.C.C. work in M-250, at superstructure for all floor lvl., For Wall & Column panelling, Webs, Bottom slabs and Decorative wall panel, Diaphragms Walls, Detailed Designer Jali [No deduction made for jali hole & Column groove], Column, including scaffolding, ramming, and finishing, Fixing at Location complete. For Work in (II) etc. Complete as per detailed by Architect / Consultant and directed by EIC	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
89	Providing in position PVC pipe sleeves of 6Kg/cm <sup>2</sup> 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 waterproofing or grouting. For all floors/all levels /all heights. (a) 50mm Diameter	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
90	Providing in position PVC pipe sleeves of 6Kg/cm <sup>2</sup> 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 waterproofing or grouting. For all floors/all levels /all heights. (a) 75mm Diameter	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
91	Providing in position PVC pipe sleeves of 6Kg/cm <sup>2</sup> 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 waterproofing or grouting. For all floors/all levels /all heights. (a) 110mm Diameter	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
92	Providing in position PVC pipe sleeves of 6Kg/cm <sup>2</sup> 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 waterproofing or grouting. For all floors/all levels /all heights. (a) 160mm Diameter	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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## NAME OF WORK: DEVELOPMENT OF LIBRARY AT JHAGADIYA, DIST: BHARUCH

### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
93	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	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
94	Providing and Placing News paper Stand 600 W X 900 D X 900 H mm. To be made from prime-quality CRCA steel tubes and sheets for durability & longevity, and the reading top is made from high-quality pre-laminated MDF for a seamless finish and contemporary look. H-type cross bracings, paired with levelling bolts at the base, provide extraordinary strength and stability, ensuring steady performance even on uneven floors	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
95	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	Sq.m.	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
96	Supplying and providing High Back Mesh office Chair As per specification below: -Metal frame seat made of Mesh fabric upholstery (foam base) -Adjustable Head rest -Fixed Arm rest -Knee tilt mechanism -360 swivel motion/ 100mm stroke gas -Nylon Star base -Pushback mechanism & Comfy seating.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
97	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 Sectionalized 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	Sq.m.	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
98	Chair Type - 02 (Cabin Visitor Chair) : Supplying and providing Mid Back Mesh office Chair As per specification below: -Metal frame seat made of Mesh fabric upholstery (foam base) -Center tilt mechanism -100mm class 4 gas lift -PP Fixed Arm rest -Nylon Star base/Twin wheel nylons casters	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
99	Providing, assembling, transporting & placing/fixing of bookshelf of size: 900W x 410D x 1800mmH. Upper section and Lower section with 5mm thick glass and with 18mm thick BWR plywood (IS303:1989) doors with 1mm thick laminate (IS 2046:1995) finish. Main structure made of 18mm thick BWR plywood (IS303:1989) with 1mm thick laminate (IS 2046:1995) finish. All exposed edges to be finished with 2mm thick PVC edge banding. Complete with handles, locks, and all necessary hardware As per design and drawing provided and finishing as per approval of architect and material as approved by engineer in charge.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
100	Gang Chair (3 Seater) : Providing and Fixing 3 Seater (moulded foam seat and back In PU upholstery ) Pero Cross Beam made of powder coated regular MS ERW tube having 8.0+/- 0.03 cm x 4.0 +/- .03 cm x 0.2 +/- 0.014 cm size. Legs to be chrom plated made of rolled steel with 0.12 +/- 0.013 cm thickness.Seat and Back Shell to be perforated made from cold rolled M.S. Sheet (DIN 1623 Part 1 ST -12 Grade), 0.14 +/- 0.013 cm thickness. The side Bar is made of chrome Plate solid steel 3.0 cm +/- 0.03cm x 1.2 cm +/- 0.03 cm with fluting and plastic inserts. The Shell to be assembled on the cross beam with help of M8 Bolts.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya



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**Itemwise Specifications Index**

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
101	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	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
102	Supplying and providing dust bin made of 100% virgin plastic with paddle. Capacity-10 to 15 Ltr.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
103	Providing, assembling, transporting & placing/fixing of decorative wood panelling (1200mm x 3000mm) with melamine polish for reception area vertical wall with Photo frame 10 nos size of A4 (210 X 297 MM), 03 nos A3 (420 X 297 MM), 2 nos A2 (594 X 420 MM) with 50mm wooden frame with plastic glazing. MDF back with metal hangers. In Dark brown, Solid colour. As per design and drawing provided and finishing as per approval of architect and material as approved by engineer in charge. Complete with all necessary hardware and accessories.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
104	Providing and Placing Goddess Saraswati idol, seated gracefully on a swan having Copper detailing and with dimensions of Height: 24 inches (61 cm), Width: 22 inches (55.88 cm), Depth: 11.5 inches (29.21 cm). As per design and drawing provided and finishing as per approval of architect and material as approved by engineer in charge	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
105	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 fabric 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	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
106	Providing & fixing laminate finish partition up to false ceiling ht (thickness of partition is 82 mm or as specified in drawing) having 12 mm thick marina plywood IS 710 grade both side on aluminum framing of gauge 16. Aluminum framing size for vertical & horizontal support is 50 mm x 25 mm. Grid of aluminum framing is 600 mm x 600 mm.All exposed surfaces finished with 1 mm thick Laminate of approved shade complete with mat finish. Necessary framing to be erected above false ceiling. No extra cost to be paid for the same. Before installation,make hole/face plate for conduit pipes of electrical / networking cables with open able stud from partition Including all materials and labor etc. Make necessary grooves as per shown in drawing. Using of 12 mm thick clear glass with proper crystal edges & with suggested frosted films on glass. All joints are covered with teakwood beading Patti finished with polish matching with laminate. Including door of same design if required Complete with all necessary hardware & adhesives as per details given in drawing and as per instructions of Architect/consultant/Engineer In charge. Contractor has to provide all necessary cut outs (race ways.) for Electrical works & no extra payment shall be made for it.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
107	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	Cum	As per "General building work technical specifications Book" Sec-4, Cl.4.0.0.(B) ,Page No.-29
108	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.(C) Hard Murrum	Cum	As per "General building work technical specifications Book" Sec-4, Cl.4.0.0.1.(C) ,Page No.-32
109	Providing and Laying cement concrete 1:3:6 ( 1 cement : 3 coarse sand : 6 broken stone aggregate 40 mm nominal size ) and curing complete excluding cost of form work in (A) Foundation and plinth PCC	Cum	As per "General building work technical specifications Book" Sec-5, Cl.5.3.2.(A) ,Page No.-38
110	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2., Page No. 47

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### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
111	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering and propping etc, height of propping and centering below supporting floor to ceiling for in situ reinforced concrete and plain concrete work in.(Foundations footing bases of columns etc. and mass concrete.	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-9, Item No. 9.1.(A), Page No. 63
112	Providing and laying controlled cement concrete M 200 and curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in R.C.C. COLUMN	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2, Page No.47
113	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (G) Columns Pillars Posts and struts. (1) Square Rectangular Polygonal in plan. R.C.C. COLUMN	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-9, Item No. 9.1.(G) i, Page No. 65
114	Providing and laying controlled cement concrete M 200 and curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in R.C.C. PLINTH BEAM	Cum	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.8.2, Page No.47
115	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (H) (1) Sides and soffits of Beams Beam Haunchings cantilevers Girders Bressumers and Lintels not exceeding 1 M. in Depth. R.C.C. PLINTH BEAM	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-9, Item No. 9.1.(H) (2), Page No .65
116	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	Kg	As per 'General Building Work Technical Specifications' booklet, Sec-5, Item No. 5.4.11, Page No. 45
117	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacings and frame around, square or round bars with round headed bolts and nuts or by screws. (B) ORNAMENTAL GRILL	Kg	As per 'General Building Work Technical Specifications' booklet, Sec-10, Item No. 10.100.(B), Page No. 76
118	20mm thick sand faced cement plaster on walls upto height 10 metres above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete.	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-17, Item No. 17.95, Page No. 122
119	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	As per 'General Building Work Technical Specifications' booklet, Sec-18, Item No. 18.51, Page No. 135
120	Applying priming coat over new steel and other metal surface after and including preparing the surface by thoroughly cleaning, oil, grease, dirt and other foreign matter and scoured with brushes fine steel wood, scrapers and sand paper with ready mixed priming paint brushing red lead	Sqm	As per 'General Building Work Technical Specifications' booklet, Sec-19, Item No. 19.12., Page No. 139
121	Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto 50Mt.lead.	Cum	As per 'General Road Work Technical Specifications' booklet, Item No. 45, Page No.67
122	Rolling and consolidation of soling including filling in depression which occur during the process, with power roller 8 tonne to 12 tonne.	Sqm	As per 'General Road Work Technical Specifications' booklet, Item No.1(E), Page No.67
123	Providing, Stacking and Plantation of Trees/ Shrubs/ Hedge at site i/c watering and removal of unserviceable material's as per direction of officer in charge.		As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
124	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	Cum	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
125	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	Cum	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
126	Supplying and stacking of well decayed cattle manure at site including royalty and carriage upto 05 k.m. lead complete (Cattle manure measured in stacks will reduced by 8% for Payment).	Cum	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
127	Tree plantation: Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) 2.14.3 Holes 60 cm dia, and 60 cm deep	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
128	Making tree guard 53 cm dia and 1.3 m high as per design from empty coal tar drums, supplied free by the department, including providing and fixing 2 nos M.S. sheet rings 50 x 0.5 mm fixed with rivets complete in all respects including painting inside and outside of tree guard with:Two or more coats of synthetic enamel paint of approved quality shade over a priming coat	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
129	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete.	Sqm	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
130	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 (1cement:3fine sand) etc complete.	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
131	(B) Providing sock pit of 5.00 Cu.M. Volume including excavating and filling brickbats with dry masonry work at top for 45cm. height including covering the top with stone including providing vatas in C.M. 1:3 with finishing curing etc. complete as directed.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
132	Construction Septic tank inside dimention of 6 m in length & 3 m in width & 2 m depth including excavating any type of soil as shown and mentioned in the drawing,providing and laying 0.10 m thick plain cement concrete 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone agg.) 40 mm thick IPS flooring at bottom with brick masonry 0.23 m thick walls CM 1:5 ( 1 cement : 5 coarse sand ) and intermediate partition CM 1:4 & RCC Top slabs12 cms thick in 1:2:4 (1 cement : 2 coarse sand : 4 graded stone agg) including reinforcement as per design and 15 mm thick cement plaster in CM 1:4 with floating coat of neat cement slurry inside, top and around tank below 15 cm on ground level, Also provide Two nos CI Manhole frame and cover of size 60 cm x 45 cm & 75 mm dia. PVC 6 kgf / Sq cm pressure air vent pipe in 3.00 length with cowl etc complete as per direction of Engineer in charge	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
133	Geophysical Survey for pin point for bore well including survey done by GWSSB department with ralay repail of pin point location including fees to GWSSB department & Transportation charges.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
134	Drilling of 315 mm dia bore in overburden strata & lowering of 200 mm dia PVC Casting Pipe up to Required Length and Further Drilling of 200 mm dia Bore in all Types of Rocky Strata, Soft Rock & Hard Rock by DTH Rig and Fixing the Bore Plug in all talukas of all districts of zone - III upto 350 mtr (Up to 350 Mtr Depth)	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
135	Providing and supplying in standard length ISI mark high density Polyethylene H.D.P.E. Pipes suitable for potable water as per IS specification no. 4984/1995 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the dept. stores etc. comp. 6.0 Kg/cm2 – 50mm Dia.	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
136	Supplying of following size of STANDARD UPVC column pipe with coupler and wire lock [D] 50 mm dia	Rmt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
137	Supply of following size of TOP & BOTTOM accessories i.e. Adaptor set (CI) long, pump guard set, starter pipe Rubber ring for submersible pump & UPVC column pipe as directed by Engineer - in - charge with necessary plumbing as desired. [D] 50 mm dia	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
138	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
139	Point wiring for Tissino / Modular 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	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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Sr. No.	Description	Unit	Item No / Page No of the applicable specification
140	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	Pt	As per 'General Building Work Technical Specifications' booklet, Sec-24, Item No. 24.00.2.(B), Page No. 185
141	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	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
142	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	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
143	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	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
144	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
145	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 2 nos. 6A 5 pin Plug For Modular Type Accessories Cat. III	Pt	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
146	Supplying & erecting Approved make call bell indicator with buzzing sound and Red light indicating lamp with Red light button to attend the call suitable for 240 v 50 c/s supply to be erected.	Ea.	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
147	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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
148	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 (3) Two Pin/RI-11 Telephone Socket [A] For One Gang Cat III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
149	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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
150	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 RI-45 socket Cat III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
151	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
152	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 (a) 20 mm	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
153	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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION

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Sr. No.	Description	Unit	Item No / Page No of the applicable specification
154	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 (c) 32 mm	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
155	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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
156	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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
157	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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
158	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 (i) 4 wire 10 sq. mm (use earth wire of 4 sq. mm)	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
159	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 (C) 3 1/2 core 50 Sq. mm ( 25 Sq. 1/2 mm core)	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
160	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) 3 1/2 core 25 Sq. mm ( 16 Sq. mm 1/2 core)	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
161	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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
162	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed.(e) 1.50 Sq.mm 3 core round PVC sheathed	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
163	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box, confirming to IS 8828/1996 with ISI Mark Cat.III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
164	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 (B) 40 Amp. Cat.III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
165	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
166	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 (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP 43) (iv)12 way	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
167	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (iv)12 way	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
168	Half / One Module Blanking Plate of Standard Size.	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
169	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed. (ii) 40Amps DP. Cat. III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
170	S.I.T.C. submersible pump set suitable for bore of 100 mm. dia. or more having three phase motor capacity not more than 5 H.P. with following capacity . Lifting and Lowering taken extra. (B) (16 stage) 140 to 180 LPM discharge at 96 to 69 mtrs. head respectively suitable for 50mm dia delivery pipe Cat.III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
171	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [B] For 2 HP 3 phase open well horizontal mono block pump set suitable for 200 LPM @ 25 mtr head suitable for 50 mm dia delivery pipe Cat.II	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION

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172	Supplying & erecting approved make 3 phase motor control cubical panel ( Star - Delta) made from 16 G. CRCA sheet duly painted with epoxy powder painted inside and outside with hinged doors and locking arrangement, consisting of suitable size of ON- OFF isolator (AC - 3/23 duty) main fuses, single phasing preventer cum water level. Guard (Complete unit), Toggle switch to by pass Single phase preventer cum WLG, indicating lamps for R- Y- B phases, over load relay, Automatic water level controller, Ammeter & Voltmeter each with two way selector switch incoming wires duly socket Crimped, Panel to be erected on angle iron frame grouted on wall as directed. Star Delta & main contactor, overload relay, thermal / Electronic Star delta cutoff timer, start - stop push buttons. The isolator overload relay & contactors of L& T, Siemens or Cuttler Hamer make only. Panel to be erected on angle iron	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
173	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S. sheet for internal partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of 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. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory (i) with 350mm depth	Sq.Mtr	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
174	Providing and erecting multifunctional meter suitable for application of Power monitoring and showing measurement of following Voltage, Frequency, Apparent energy, Apparent power, Active and reactive energy, Active and reactive power, Average voltage Vavg, Peak demand power PM, QM, SM, Demand power P, Q, S, Apparent power S, S1, S2, S3, Unbalance current, Power factor and displacement PF (signed, four quadrant), Calculated neutral current, Active, reactive, apparent energy (signed, four quadrant), Active power P, P1, P2, P3, Voltage U21, U32, U13, V1, V2, V3, Phase currents, Average current lag, Peak demand currents, Reactive power Q, Q1, Q2, Q3, Demand current I1, I2, I3, [Us] rated supply voltage 40...300 V AC 45...65 Hz, 40...300 V DC, Network frequency 50 Hz, Type of network 3P, Display type 7 segments LED, Display colour Red, Messages display capacity 3	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
175	Providing and erecting metallic vitrified danger notice board as per language suggested by engineer incharge for MEDIUM VOLTAGE installation to be erected as per IS-2551.	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
176	Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar, erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp Capacity	Rn. Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
177	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 (1) 15 A -100 A CT Ratio 1/100	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
178	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G M.S housing ICS=100% of ICU Only Cat III	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
179	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. (A) 3 & 1/2 / 4 core 25 Sq. mm	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
180	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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
181	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. (A) 1.5/ 2.5/4/6 Sq mm	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
182	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (C) 16/25 Sq mm	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
183	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (D) 35/50 Sq mm	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION

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184	Supplying & erecting earth pit of minimum bore dia.150mm size approved make 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 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm 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. (b)For Electrical installation up to 11 KV in normal soil.	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
185	Supplying and erecting approved make Octagonal pole made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759, suitable suspend local wind speed with integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable termination to be erected With Suitable foundation (Included) as per details given by manufacturer considering site requirement.(D) 6 Mtr. Long 70 mm Top X 135 mm bottom dia, 3 mm thickness with 200mmX200mmX12mm base plate, 4-M20 Bolts and 600mm long	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
186	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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
187	Making trench in soft 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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
188	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 (A)50 mm outer dia	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
189	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.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
190	Supplying & erecting IP 55 grade following size section pillar fabricated from joint less M.S. Sheet with angle iron legs made from jointless M.S. Angle with cable clamps to be buried in ground to have appropriate erection to work uniform until erected with cement concrete foundation and 45 cm high bricks work finishing with plaster etc. hinged double door internally supported on both side, with internal and outside looking arrangement with look and keys in duplicate 35 x 35 x 5 mm M.S. Angle of Two Nos. one is welded and other with nut and bolt for erecting Bakelite sheet. Painting the Section Pillar inside and out side with three tank powder coated paint. section pillar roof should be without joint with water leakage proof & tested as per IP 55 test & followed by IS 2147 of 1962 (B) 75 X 60 X 45 cm section pillar fabricated from 16 Gauge MS Sheet with angle iron legs 45 cm long made from	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
191	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 (iv) 22-24 watts, Surge-2 KV,	Nos	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION

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Sr. No.	Description	Unit	Item No / Page No of the applicable specification
192	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.) (B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete. IP20 (vi) 36 watts, 24" x 24", Surge- 2KV Cat-III	Nos	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
193	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 aluminium 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. (ii)	Nos	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
194	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.)	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
195	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 aluminium housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses 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.) (B) Flood Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
196	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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
197	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%, compatible with electronic regulator 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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
198	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.	Nos	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
199	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.	Nos	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
200	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame. 250mm with 1350 RPM Cat.II	Nos	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION



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201	Lowering of submersible motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water (D)For Open well Horizontal submersible pump set for sump well (i) 1 HP to 5 HP	Per Job	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
202	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (A) 3 Core x 1.5 Sq. mm.	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
203	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (B) 3 Core x 2.5 Sq. mm.	Mtr.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
204	The required unit shall be a heavy-duty, monochrome (black and white) multi-function laser printer capable of high-speed printing, digital scanning, and standalone photocopying ("Xerox" functionality). The device must utilize dry toner-based laser technology to ensure smudge-proof, archival-quality output with a minimum print and copy resolution of \$600 \times 600\$ dpi. It should deliver a sustained print speed of at least 18 to 30 pages per minute (ppm) on A4 media, featuring a robust monthly duty cycle ranging from 8,000 to 10,000 pages to support consistent office workloads. The integrated flatbed scanner must provide color scanning capabilities with an optical resolution of at least 600 dpi, supporting digital	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
205	Supply and installation of a Desktop PC featuring an AI-integrated processor (Intel Core Ultra 5 / Ryzen 5 or equivalent with NPU), 16GB DDR5 RAM, and 512GB Gen4 NVMe SSD. Unit must include a 24-inch IPS height-adjustable monitor with TUV-certified eye protection. Connectivity must support Wi-Fi 6E, Bluetooth 5.3, and USB-C Thunderbolt 4. System must be housed in a tool-less SFF chassis with an 80 Plus Gold PSU. Includes 3-year onsite OEM warranty.	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
206	Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, 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 powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting. (1)For ISEER Range (KWH/KWH)(3.1 to 3.99) Design Capacity (4) for 1.5 ton capacity	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
207	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.[H] 10 KVA with 1Hr	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
208	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	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
209	SITC of Patch Panel Cat 6 UTP Keystone Type- 24 Port-Fully Loaded [Approved by Competent Authority i.e. not Below the rank of Executive Engineer ]	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
210	SITC of Face Plate - Dual (Keystone Jack,square) [Approved by Competent Authority i.e. not Below the rank of Executive Engineer ]	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
211	SITC of CAT6 UTP 24AWG PATCH CORD:2M,Plug 30U" Snag less [Approved by Competent Authority i.e. not Below the rank of Executive Engineer ]	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
212	Supply, Installation, Testing & Commissioning of Indoor / Outdoor 5 MP IP Dome Camera of 1/2.8" Progressive CMOS Sensor with resolution 30 fps @ 2048x1536 & Manual Vari Focal f = 3- 9 mm Field of View 40° ~ 80° (H), 30° ~ 60° (V) IR range upto 30 Mtr Smart IR Min. Illumination 0.1 Lux @ F1.4 (Color), 0.01 Lux @ F1.4 (B/W) 3D Noise Reduction ; Compression Technology H.265, H.264, MJPEG with 3 simultaneous streams ; S/N Ratio 51.5 dB Dynamic Range 110 dB WDR; two way Audio ; on board SD/SDHC/SDXC card slot ; P-iris Lens & Digital Image Stabilization ; ONVIF IP66, IK10, CE,FCC Class A, UL	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
213	Supply, Installation, Testing & Commissioning of Indoor / Outdoor 5 MP IP Bullet Camera of 1/2.8" Progressive CMOS Sensor with Night Vision and with resolution 30 fps @ 2048x1536 & Manual Vari Focal f = 3- 9 mm Field of View 40° ~ 80° (H), 30° ~ 60° (V) IR range upto 30/50 Mtr Smart IR Min. Illumination 0.1 Lux @ F1.4 (Color), 0.01 Lux @ F1.4 (B/W) 3D Noise Reduction ; Compression Technology H.265, H.264, MJPEG with 3 simultaneous streams ; S/N Ratio 51.5 dB Dynamic Range 110 dB WDR; two way Audio ; on board SD/SDHC/SDXC card slot ; P-iris Lens & Digital Image Stabilization ; ONVIF IP66, IK10, CE,FCC Class A, UL	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION

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214	Supply, Installation, Testing and Commissioning of 64 Channel Network Video Recorder (NVR), Dual OS design, HDD Hot Swap with RAID support, N+1 hot spare configuration, Support 16CH@2MP, H.265/H.264 Video Compression, HDMI, VGA output, up to 8 SATA interface each with max 10 TB support and 1 eSATA, 16-ch synchronous playback at up to 1080p resolution, Gigabit Ethernet network interfaces, bandwidth 320 mbps, CE FCC, BIS, Operating Temp -10 deg to 50 deg C, USB and serial Interface, RAID supported	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
215	Supply, install, test, and commission 8TB enterprise-class hard disk drive optimized for 24x7 surveillance recording. SATA III interface, 7200 RPM, ≥256 MB cache, low power consumption, vibration tolerant, suitable for RAID/NVR/DVR systems. Includes mounting, <del>cabling configuration full functional testing and manufacturer warranty</del>	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
216	Supply, deliver, install, test, and commission a 55" LED/LCD display with Full HD resolution (1920x1080 pixels) for conference halls, classrooms, meeting rooms, or similar applications. The display shall have at least 2 HDMI ports, 1 VGA port, and support for other standard inputs. It shall include a wall-mount or floor stand as required, and all necessary accessories for installation such as mounting brackets, power and signal cables. The display should deliver clear, high-contrast video output, support standard refresh rates, and provide reliable operation for continuous or intermittent use. Scope includes proper mounting, cabling, connection, configuration, and functional testing to verify all ports and	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
217	SITC of Jack Cat 6 Keystone UTP [Approved by Competent Authority i.e. not Below the rank of Executive Engineer ]	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
218	SITC of 9U Network Rack for Network switch, Jack panel consisting of mains panel, fan tray for ventilation, power distribution, cable channel etc as required.	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
219	Supply, Installation, Testing & Commissioning of following size of Grid Tied Solar Power Plant with Solar Panels (ALMM approved): Frame Material : Anodized Aluminum alloy Frame With Twin Wall Profile, Front Cover : High Transmission Low-Iron Tempered Glass (AR Coated), High efficiency and positive power tolerance Pmax: 0/+5, Module Efficiency should be approx. 19.5%-22%, Normal operating temperature 45°C, Junction Box with Waterproof IP67 & MC4 Compatible and Enclosed with Bypass diodes, 100% Electroluminescence test to ensure error free Modules, Thep. temp. co-efficient of the PV module shall equal or better than -0.45%/degree C. Solar PV modules of minimum fill factor 75% to be used. Unit Production:- More than 4.5 Unit /kw /day (Actual)(1Year Avg) With 10 year Product warranty and 25 year Linear Power Warranty includes all mechanical and electrical parameters of the Solar panel. Modules must be complied to the DCR(Domestic content requirements). The Ratio of AC to DC is 5:6 for the Installation capacity which are given in AC KW. Solar Inverter: MPPT Range: MPPT Range: 80-1000 V , Max efficiency: 97.5% - 98.9%, O/p Frequency: 50/60Hz, Operating Altitude (m) ≤4000, O/p Power Factor: ~1, O/P THDi: <3%, Operating Temperature Range: -25~60°C, Integrated protection of Inverter are Anti-islanding Protection, Input Reverse Polarity Protection, Insulation Resistor Detection, Ground fault protection, Residual Current Monitoring Unit, Output Over Current Protection, Output Short Circuit Protection, Output Over Voltage Protection, PV array string fault <del>Protection Protection Damage IP65 User Interface LCD &amp; APP Data Logger &amp;</del>	Kw.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
220	POWER CONNECTION & STATUTORY APPROVALS (LIAISONING WORK FOR GEB POWER FOR 1NO 3PHASE METER.) Charges for doing liaisoning work for taking power for the premises obtaining the necessary clearances from the Electrical inspector / competent Authorities for the total Electrical installation, co-ordinating with various agencies. All necessary drawings, calculations, test certificates, etc. as required by these authorities shall be prepared and furnished by the contractor. Any modification/rectification as required by these authorities shall be carried out by the Contractor.As per drawing and design supplied by	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
221	The required unit shall be a high-performance, portable Bluetooth-enabled Public Address (PA) system, specifically designed for large open-hall environments, seminars, and social gatherings. The speaker must deliver a minimum power output of 150W to 240W RMS to ensure uniform sound distribution in open spaces without distortion. It shall feature a multi-driver configuration, including dedicated woofers for deep bass and high-frequency tweeters for crisp vocal reproduction during lectures and seminars. The system must support the latest Bluetooth (v5.0 or higher) for seamless wireless streaming and include multiple input options such as USB, AUX (3.5mm), and SD card slots. For seminar use, the unit must be equipped with at least two professional-grade UHF Wireless Microphones with independent volume and echo controls, along with a dedicated "Mic Priority" feature that automatically lowers	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION

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222	Supply, deliver, install, test, and commission a 75" Full HD (1920×1080) resolution display suitable for conference halls, meeting rooms, and classrooms. The display shall include 2 HDMI ports, 1 VGA port, and standard connectivity options for laptops, PCs, and media devices. The work includes provision and installation of wall mount stand, all necessary cables and accessories, power cabling, and proper mounting as per site requirements. The display shall be capable of clear, bright, and distortion-free output, supporting both video and presentation applications. Scope includes configuration, functional testing of video and audio output, and verification of connectivity through HDMI/VGA interfaces. The package shall	Ea.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
223	Providing and fixing wash down water closet (European type, W.C.Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (I-Cement: 1- fine sand) (Seal and cover to be measured and paid for separately) (A) vitreous china Pattern :(i) in white colour	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
224	Providing and fixing 12.5 Liters low level flushing cistern with a pair, of C.I. or Mild brackets, complete with fittings such as lead valve less syphon, 15mm nom.nal size brass ball valve with polythene float, C.P brass handle unions and couplings for connections, with inlet, outlet and overflow pipes, 40mm dia. porcelain enamelled flush bend including cutting holes in walls and making good the same connecting the flush bend with cistern and closet (overflow pipe to be measured and paid for separately) (A)Vitreous China (I) In white colour	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
225	Providing and fixing Health Faucet Heavy duty with hook with fitting .	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
226	Jet spray heavy duty with S.S. Braided hose 60 cm long	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
227	Providing and fixing toilet paper holder.(A) C.P. Brass.	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
228	P&F 2-way Brass Bib Tap Providing and Fixing 2-Way Brass Bib Tap with wall flange in Polished Chrome of approved Quality and conforming to Manufacturers Standards.	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
229	Providing and fixing plastic seat and cover for wash down water closer with C.P. brass hinges and rubber buffers. (B) Black plastic seal and cover.	Nos.	As per separate specifications sheet attached; ELE DETAILED ITEMWISE TECHNICAL SPECIFICATION
230	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including sutting holes and making good the same but excluding fittings.(A)Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
231	Providing and fixing C.P. brass towel rail complete with C.P. brass brackets fixed to wooden plugs with C.P. brass screws.(B) 600mm x 20mm size.	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
232	Providing and fixing C.P. brass waste for washbasin or sink. (B) 40mm dia.	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
233	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 20mm dia.	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
234	Providing and fixing Heavy Duty Stainless Steel flexible Connection Pipe Set with Accessories	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
235	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.	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
236	Providing and fixing Rubber plug for sink or wash basin.	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
237	Providing and fixing chromium plated,C.P.Angle stop cock 15 mm Heavy duty with cap of approved quality for .	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
238	Providing and fixing chromium plated, bottle trap with necessary couplings of approved quality for wash basin/urinal.	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
239	Providing and fixing G.I. inlet connection for flush pipe with W.C. Pan	Nos.	As per separate specifications sheet attached; PLUMBING TENDER SPECIFICATION
240	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete [B] 20 mm	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
241	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete [C] 25 mm	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
242	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete [D] 32mm	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
243	Supply, installation, testing and commissioning of PN 16 full bore, lever operated, forged brass body, quarter turn, ball valve provided with forged brass hard chrome plated ball, Including necessary nipple, coupling, union etc. 20 MM	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION

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244	Supply, installation, testing and commissioning of PN 16 full bore, lever operated, forged brass body, quarter turn, ball valve provided with forged brass hard chrome plated ball, Including necessary nipple, coupling, union etc 25 MM	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
245	Supply, installation, testing and commissioning of PN 16 full bore, lever operated, forged brass body, quarter turn, ball valve provided with forged brass hard chrome plated ball, Including necessary nipple, coupling, union etc 32 MM	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
246	Supply, installation, testing and commissioning of PN 16 full bore, lever operated, forged brass body, quarter turn, ball valve provided with forged brass hard chrome plated ball, Including necessary nipple, coupling, union etc 40 MM	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
247	Supply, installation, testing and commissioning of Horizontal plunger type Forged Brass / Bronze Float Valve, Screwed End, HDPE Ball / Float, PN 10 rating, 50 MM	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
248	Supply, installation, testing and commissioning of 'Y' type Strainer (CI Body) with SS 316 / 304 mesh complete with required accessories. The strainer shall be single or double type screwed thread for bores of up to 40 mm and flanged for bores of 50 mm above. Strainers of up to 40 mm shall be gun metal or bronze, 40 MM	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
249	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
250	Supply, installation, testing and commissioning of Automatic Control system with BMS compatibility consisting of Water Level Float Switch single sensor (low /high) with NO/NC contacts, control box 24V, necessary cabling i.e. from float switches (UGT & OHT) to control panel, panel to pump & main power supply to control panel and other necessary accessories to make system complete. The signals from level transmitter, level switch and motorized valve (open/closed feedback) shall be connected to BMS for monitoring purpose. (For UGWT & OHWT - Domestic as per drawing)	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
251	Supply, installation, testing and commissioning of brass/bronze Auto air vent valve rated for PN 16 including all fitting & accessories (Including ball valve, nipple, etc.) 20 mm dia	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
252	Providing, laying and jointing in true line and level 160 diameter 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 Nos. other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160mm diameter x 210mm length x 196 mm height 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	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
253	Providing, laying and jointing in true line and level 110 diameter 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 Nos. other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height 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	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
254	Providing and fixing PVC SWR pipes IS 13592 for Drain - 75 mmdia	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
255	Providing and fixing P.V.C. Pipes 10 kgf / Sq.cm. 40mm dia..	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
256	Providing and fixing PVC SWR P- Trap IS 14735 for Drain -110x110	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
257	Providing and fixing PVC SWR Nahni trap IS 14735 for drain- 75 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.	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
258	Supplying and fixing reinforced concrete heavy duty nonpressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specifications including setting the pipes in C.M. 1:2 watering and laying (to level or slopes) of class NP3 of following internal daimeters.(i) 300mm dia.Providing laying (to level or slopes) and jointing reinforced concrete Light duty non- pressure pipes I.S. class NP3 of the following internal diameter with collars and butt ends prepared for collar joints including setting of joints complete (A) 200 mm	Rmt	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
259	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) 110mm x 100mm size P or R tyne	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION

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**Itemwise Specifications Index**

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
260	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 900mm 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 64Kg.) (A) With 230mm thick walls of brick masonry using brick having crushing strength not less than 35Kg./Sq.cm. in Cement Mortar 1:5 (1- Cement: S Coarse sand) (1) A type depth 0.90 Meter for Sewer Network.	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
261	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 900mm 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 64Kg.) (A) With 230mm thick walls of brick masonry using brick having crushing strength not less than 35Kg./Sq.cm. in Cement Mortar 1:5 (1- Cement: S Coarse sand) (1) A type depth 0.90 Meter for Storm network.(WITH GRATING)	Nos.	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
262	Supply, installation, testing and commissioning of submersible pumping system with suitable food grade membrane, charging connection, connected to outlet header with necessary flanges, gaskets, isolating valves, nuts/bolts etc complete. The pumps shall have SS head, SS 304 Gland plate, shaft / impeller / intermediate chamber, mechanical seals with rubber parts, suction and delivery pipe connection with suitable flanges (threaded / bolted) and required accessories for proper functioning of the system. Motor shall be TEWC IP55 Sq Cage, IE-3 type, suitable for 415 ± 10% Volts, 50 Hz, 3-phase AC power supply. Electrical starter panel of suitable capacity shall be included in the quote. The pump shall be mounted on common base frame. The maximum permissible sound level of the pump shall not exceed 85 dB measured at 1m from the pump surface. The pump shall be supplied with necessary vibration isolators. The pump shall be selected for performance at best efficiency point. However, the pump selection shall be suitable for performance with set point @ ± 20% of the rated head. Vendor shall submit the pump performance curves and technical catalogue of the proposed model for review. All the pumping equipments & accessories such as valves, strainer, pressure gauge, pressure switch, suction and discharge header, electrical starter panel , inter connecting power and control cabling etc shall be included in the quote. Electrical starter panel shall be located as per site condition as directed by EIC. The pump shall be suitable for auto / manual operation and should be equipped with dry running protection. Flow Rate (Nos. Pump) : 5 m3/hr Head (Nos. Pump) : 30 Meter Speed: NMT 2900 rpm Impeller: SS	Set	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
263	Providing, installation, testing and commissioning of submersible type borewell pump set suitable for operation on 415V ±10%, 50 Hz, 3-phase AC supply, complete with motor, pump, rising main, cable, accessories, and control panel as required.The pump shall be capable of discharging the required quantity of water at the specified head.The work shall include lowering of the pump set in the borewell with proper alignment, connection of delivery pipe, non-return valve, foot valve (if required), safety rope/wire, submersible cable with suitable clamps, and testing for smooth operation. Flow Rate (1 Nos. Pump) : 15 m3/hr Head (1Nos. Pump) : 100 Meter Speed: NMT 2900 rpm Impeller: SS	Set	As per separate specifications sheet attached; PLUMBING_TENDER SPECIFICATION
264	FIRE PUMP Supply, installation, testing and commissioning of electrical driven terrace pump suitable operation and consisting of following, complete in all respects, as required: (terrace pump) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS: 1520 Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 hz , Ac supply with IP55 class of protection for enclosure, horizontal foot mounted type with class-'F' insulation, conforming IS- 325. M.S. fabricated common base plate, coupling, coupling guard, foundation bolts, etc. as required. Suitable cement foundation duly plastered	Set	As per separate specifications sheet attached; FFTG Tender Specification

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**Itemwise Specifications Index**

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
265	CONTROL PANELControl panel for TERRACE PUMP CONTROL. (As Above) a) 75 Amps TP & N SFU with HRC fuses b) Voltmeter (0-500 Volt) with selector switch c)Ammeter (0-75 Amps) with selector switch & CTs. d) Set of 3 phase indication lamp e) Suitable HP fully automatic Star/Delta Starter with over load protection current sensing type single phase prevent or complete with all accessories and internal wiring required for automatic operation f) Selector switch for local/remote auto/manual/off operation ON/OFF indication lamp etc.	Set	As per separate specifications sheet attached; FFTG Tender Specification
266	Providing, laying, testing & commissioning of 'C' class heavy duty GI pipe conforming to IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 25mm dia (hydrant to hoses reel tapping)	Mtr	As per separate specifications sheet attached; FFTG Tender Specification
267	Providing, laying, testing & commissioning of 'C' class heavy duty GI pipe conforming to IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 80mm dia (Hydrant tapping)	Mtr	As per separate specifications sheet attached; FFTG Tender Specification
268	Providing, laying, testing & commissioning of 'C' class heavy duty GI pipe conforming to IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 100mm dia (fire brigade connection) & (DOWNCOMER)	Mtr	As per separate specifications sheet attached; FFTG Tender Specification
269	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required .	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
270	Providing, fixing, testing and commissioning of C.I. Butterfly valve conforming to I.S:13095 class PN 16 rating with Fittings, Flanges, Nutbolts, Washers, Gaskets etc.of size 100mm nominal dia	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
271	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 100mm dia	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
272	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange. 100mm dia	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
273	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required : Gun metal	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
274	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket. 40 mtr	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
275	Supplying, installing and commissioning of fire brigade inlet connection of 4 way with 4 nos. 63 mm dia, built - in Gun metal Non- return valves instantaneous coupling type arranged on 100 mm dia pipe manifold and connected to hydrant main. Quoted rate shall be included with C.I. Butterfly valve, C.I. Non-return valve of suitable size with mounting supports etc. complete	Nos.	As per separate specifications sheet attached; FFTG Tender Specification

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### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
276	SITC of microprocessor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 $\pm$ 5% V, 50 Hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with	set	As per separate specifications sheet attached; FFTG Tender Specification
277	SITC of addressable manual call point complete as required	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
278	SITC of addressable horn cum strobe complete as required	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
279	Supply, installation, testing and commissioning of addressable Multi detector with required accessories.	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
280	SITC of fault isolator complete with base as required	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
281	Supplying, installation, testing & commissioning of addressable fire control module complete as required	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
282	SITC of Monitor module complete with base as required	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
283	Supplying and laying of 2 x 1.5 sqmm fire survival armoured cable, 600/1000 V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of cross linkable ethylene propylene rubber (EPR) insulation and LSZH inner bedding, steel wire armouring and LSZH outer sheath complete as required	Mtr.	As per separate specifications sheet attached; FFTG Tender Specification
284	Supplying and laying of 4 core x 1.5 sqmm fire survival armoured cable.	Mtr.	As per separate specifications sheet attached; FFTG Tender Specification
285	Supplying, installing and commissioning Portable Fire extinguishers of following type & capacity all conforming to IS 15683 filled in brand new cylinder and rated as per requirement and color coded with suitable mounting arrangements. ABC type fire extinguisher of 6 Kgs.(Basement parking, Staircases, Utility, Electrical room, Exec block, Reception, Dining Area, AHU Rooms & Substation). Stainless steel (S.S.MOC)	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
286	Supply, installation, testing and commissioning of Pump on/off Remote switches to each floor with required accessories.	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
287	Supply and installation of Pressure switches of suitable range with 6Kg pressure for pumpsets with Ball valves, Fittings like unions / colours / reducers etc.	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
288	Supply and installation of Pressure gauges of suitable range with 6Kg for pumpsets with Ball valves, siphon, Fittings like unions / colours / reducers etc.	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
289	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required.	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
290	M.S. Hose cabinet stand mounted type fabricated out of M.S. sheet of 16 swg. with glass fronted (4mm thick glass with rubber beading) door and size of the cabinet shall be 600mm x 750 mm x 250 mm Quoted rate shall include suitable stand for mounting, all fasteners etc, and cabinet shall be powder coated of approved colour both inside and out side. Hose Boxes for external points should be suitable for Outdoor erection, should have metallic cover over box so that box can be protected from rain	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
291	Providing, fixing, testing and commissioning of gun metal air release valve with connection in the riser & control valve.	Nos.	As per separate specifications sheet attached; FFTG Tender Specification
292	Obtaining NOC from fire license from local fire authorities and industries authorities upon the client request and all liaisoning activities etc complete in all respect. (NOTE: The documents required for getting NOC from any other department shall also be in the scope of the contractor)	Ea.	As per separate specifications sheet attached; FFTG Tender Specification
293	Providing and fixing of planter/pots of frp or plastic with Natural indoor plants as per selection and complete the work satisfactorily, etc. complete as per drawings and design supplied by architect and instruction given by authority and E.I.C.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
294	Providing and Supplying Book Server Premium Service. (As Directed and Instruction of Director Librerion)	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
295	Supplying heavy duty hand car Dustbins having standard different colour of size 250 liters of any brand or its equivalent brand as directed by engineer-in-charge etc. complete.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
296	Supplying & Fixing of Photo frame of up to Size 12" x 18" with Slogen Sticker or Any Photo (up to Size 225 Sqinch)	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
297	Supplying of Wall Clock (Size Up to 15") or Table Clock (Size Upto 12" Digital Clock)	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
298	Supplying of Office Table Top Artificial or Indoor Pot (Ht Up to 12")	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya

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### Itemwise Specifications Index

Sr. No.	Description	Unit	Item No / Page No of the applicable specification
299	Supplying Small Size Door matt (Size Up to 15" x 24")	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
300	Supplying Big Size Door matt ( Size : 60" X 24")	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
301	Providing and Supplying of Tripoi (Size : 30" x 18")	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
302	Notice Board / Pin Board Supplying of Notice Board of 3'x 3' (or as specified) with all Fixing Arrangement complete as per drawing and Directed by Engineer In Charge etc complete.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
303	Providing and Fixing Library Name in Gujarati Letter SS304 1mm thick letter 1.5" depth 10" Height with Duco color & fitting as per direction of Architect & EIC.	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
304	Providing, assembling, transporting & placing/fixing of kid's chair of size: 375W x 375D x 495mmH. Made of polypropylene material with strong legs. Complete with all necessary hardware and accessories As per design and drawing provided and finishing as per approval of architect and material as approved by engineer in charge	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya
305	Reading Chair-02 : Providing and Placing Reding Chair - The seat and back are made up of 1.2cm.thick hot pressed plywood upholstered with leather and moulded Polyurethane foam.MID BACK SIZE: 53.0cm. (W) X 73cm. (H)SEAT SIZE: 54.6cm. (W) X 49.0cm. (D)The HR Polyurethane foam is moulded with density=45+/-2 kg/m cube and hardness load 16+/-2 kgf as per IS:7888 for 25% compression. The fixed type mechanism is made with a 0.8 cm thk HR Steel spine-welded to it and black powder coated(D- FT 40-60 microns-).The Understructure is made up of M.S.E.R.W. Elliptical tube of size 4.5 x 1.9 cm x 0.25 cm welded to M.S.E.R.W Tube of dia 1.6 cm x 0.2 cm thick.The understructure is powder coated	Nos	As per separate specifications sheet attached; Item Wise Technical Specification_Library@Jaghadiya