

**Name of Work :- Constructing Artificial Insemination Centre at Village Vadadla  
Ta. Balasinor Dist. Mahisagar**

**SPECIFICATION INDEX**

<b>It. No.</b>	<b>Description of Item</b>	<b>Applicable specification reference</b>
1	Excavation for Foundation upto 1.5 m depth including Sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 M. Lead.(A) Loose or soft soil	As per Separate Sheet attached.
2	Excavation for Foundation from 1.50m to 3.0m depth including Sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 M. Lead. (B) Dense or Hard soil.	As per Separate Sheet attached.
3	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	As per Separate Sheet attached.
4	Providing and laying cement concrete 1:2:4 (1- Cement : 2 Coarse sand : 4-graded stone aggregates 20 mm nominal size) and curing complete (A) Foundation and Plinth	As per Separate Sheet attached.
5	Providing and laying controlled cement concrete M.250 work with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C. work in for footing	As per Separate Sheet attached.
6	Providing and laying Ordinary cement concrete M.200 and curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C. work in for COLUMNS	As per Separate Sheet attached.
7	Providing and laying Ordinary cement concrete M.200 work with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C. work in for BEAMS.	As per Separate Sheet attached.
8	Providing and laying ordinary cement concrete M-200 work with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C. work in for Slab for All floor.	As per Separate Sheet attached.
9	Filling available excavated earth (excluding Rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20.cm. in depth consolidating each deposited layer by ramming and watering.	As per Separate Sheet attached.
10	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. completed.	As per Separate Sheet attached.
11	Filling in plinth with sand under floors including watering ramming, consolidating and dressing etc. complete.	As per Separate Sheet attached.
12	Brick work using common burnt Clay building bricks having crushing strength not less than 35 kg / sq.cm in super structure above plinth level up to floor two level in Cement mortar 1:6 (1 Cement : 6 fine sand) (b) Conventional	As per Separate Sheet attached.
13	Half brick masonry in common burnt Clay building bricks having crushing strength not less than 35 kg / sq.cm in in C.M 1:3 (1 Cement : 3 coarse sand) in with 2 nos. of 6 mm dia.mild steel round bars after every three coarse embedded in cement mortar in super structure above plinth level up to floor two level.	As per Separate Sheet attached.
14	Providing and fixing door having side hung double shutter having Marble door frame, with factory made 25 mm. thick flush door both side pre laminated with lach lock as per detail colour & pattern apporoved by this office including necessary fixtures and fastenings.	As per Separate Sheet attached.

It. No.	Description of Item	Applicable specification reference
15	Providing and fixing door having side hung single shutter having Marble door frame, with factory made 25 mm. thick flush door both side pre laminated with lach lock as per detail colour & pattern apporoved by this office including necessary fixtures and fastenings.	As per Separate Sheet attached.
16	Providing and fixing FRP frame size 100 x 50 mm and 28mm thick FRP depress panel shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected fire retardant grade polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & fintures. 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 fixtures & fastenings & fastener sleeve.	As per Separate Sheet attached.
17	Providing and fixing standared extruded of alluminium section of size 63.5mm x 38.10mm x1.95 mm (of Jindal section No. 4605, @ Wt. 1.094 Kg per mt) with colour anodized alluminium frame for Window with 3 mm thick frosted glass as details etc.complete.	As per Separate Sheet attached.
18	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm (Jindal Section :2434, @ Wt. 0.643 Kg/mt) with colour anodized alluminium frame for ventilation with 3 mm thick frosted glass as details etc complete for Ventilation	As per Separate Sheet attached.
19	Providing and fixing polished marble stone with necessary moulding around sill & Jamb of Doors, Windows & Ventilation.	As per Separate Sheet attached.
20	Providing and fixing M.S grills of required pattern to Marble frames of windows etc.with M.S.flats at required spacing on frame all-round square or round bars with rounded headed bolts and nuts or by screws including priming coat and two coats of oil paintings etc.comp. (a) Plain grill	As per Separate Sheet attached.
21	Providing and fixing M.S. railing 90 cm height fixed on side of stair with necessary hold fast with 12 x 12 mm M.S. square vertical balustrade 2 no each tread with 40 x 5 mm M.S. flats tie at 30 cm height from the tread with 40 mm dia M.S. pipe railing on the top including cutting welding fabricating including priming coats and two coats of oil painting etc. complete.	As per Separate Sheet attached.
22	Providing and laying ordinary cement concrete 1:2:4 (1- Cement 2- coarse sand : 4- graded stone aggregates 20 mm nominal size) for R.C.C lintel including finishing smooth with curing etc. complete including the cost of formwork but excluding the cost of reinforcement.	As per Separate Sheet attached.
23	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4-graded stone aggregates 20 mm nominal size) for reinforced concrete Chhajjas not exceeding 10cm. thickness upto floor two level including finishing the exposed surfaces with cement mortar 1:3 (1-cement, 3 Fine sand) to give a smooth and even surface centering and formwork and curing complete excluding cost of reinforcement.	As per Separate Sheet attached.
24	Providing and laying ordinary cement concrete M-200 work with curing complete including cost of formwork and reinforcement for reinforced concrete work in (E) Staircases including landing upto floor two level	As per Separate Sheet attached.
25	Providing T.M.T Fe 415 bar Reinforcement for R.C.C work including bending binding and placing in position complete up to floor two level.	As per Separate Sheet attached.
26	Providing & Laying 24" x 24" Vitrified 8 mm thick tiles Flooring over 20 mm (average) base of Cement Mortar 1:6 (1 Cement: 6 Coarse Sand) on new surface or fixing on exiting flooring by adhesive material including jointed with colour cement slurry including finishe with flush pointing & cleaning the surface etc. complete.	As per Separate Sheet attached.

It. No.	Description of Item	Applicable specification reference
27	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 laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing moulding and polishing etc. complete.(A) 25mm thick	As per Separate Sheet attached.
28	Providing and laying polished kota stone slab 25mm thick in risers of steps, Skirting , Dedo and pillars laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slury mixed with pigment to match the shade of slab including rubbing, moulding and polishing etc. complete.	As per Separate Sheet attached.
29	Providing & laying Ceramic flooring tiles (0.3m x 0.6m) in skirting, risers of steps & dedo on 10 mm thick Cement plaster 1:3 (1 Cement : 3 Coarse Sand) & Jointed with white cement slurry	As per Separate Sheet attached.
30	Providing 15mm thick cement plaster in Two coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in finishing with a floating coat of neat cement slurry (ii) cement mortar 1:4 (1-cement : 4 sand) & providing 10 mm x 10 mm groove at junction of structural member etc. complete.	As per Separate Sheet attached.
31	Providing 10 mm thick cement plaster in Two coat on fair side Brick/Concrete walls for interior plastering on ceiling and soffits of stair upto floor two level finished even and smooth and finishishing with floating coat of neat cement slurry & Providing 10 mm x 10 mm Groove at junction of Structural member (1) Cement Mortar 1:3 (1 Cement : 3 sand)	As per Separate Sheet attached.
32	20 mm thick Sand faced cement plaster on wall upto height 10 mts.above ground level consisting of 12 mm thick backing coat of C.M 1:3 (1 cement : 3 sand )and 8 mm thick finishing coat of C.M 1 : 1(1 cement : 1 Sand) etc. complete.	As per Separate Sheet attached.
33	Providing and laying polished kota stone slab 25mm thick in risers of steps, in cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slury including rubbing and polishing etc. complete.	As per Separate Sheet attached.
34	Wall painting (three coats) with Plastic emulsion paint of approved brands like Apex or equivalent and manufacture on undecorated wall surfaces to give an even shade including thoroughly brushinf the surface free from mortar droppings and other foreign matter and sand papered smooth.	As per Separate Sheet attached.
35	Finishing wall with water proofing cement paint of approved brand and manufacturand of of required shade on wall surface (two coats) to give an even shade after throughly brshuing the surface to remove all dirt and remains of loose powdered materials.	As per Separate Sheet attached.
36	Providing, laying and jointing in true line and level I.S.I. mark 25mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer in charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent including cost of all materials.	As per Separate Sheet attached.
37	Providing, laying and jointing in true line and level I.S.I. mark 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer in charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent including cost of all materials.	As per Separate Sheet attached.
38	Providing and fixing gun metal check or non return full way wheel valve.(C) 25 mm dia.	As per Separate Sheet attached.

It. No.	Description of Item	Applicable specification reference
39	Providing and fixing gun metal check or non return full way wheel valve.(A) 15 mm dia.	As per Separate Sheet attached.
40	Providing & fixing Chromium plated brass half turn flush cock of approved quality including fixing in pipe line etc. complete.(ii) 25 mm dia.	As per Separate Sheet attached.
41	Providing and fixing 600 mm x 450 mm. bevelled edge Mirror or superior glass mounted on 6 mm. thick A. C. sheet or plywood sheet and fixing to wooden plugs with C. P. Brass screws and washers.	As per Separate Sheet attached.
42	Providing and fixing C.P.Brass Towel rail complete with C. P. Brass brackets fixed to wooden plugs with C. P. brass screw. (b) 600 mm x 20 mm size	As per Separate Sheet attached.
43	Providing and fixing Brass screws down Bib tap chromium plated of 15 mm dia.	As per Separate Sheet attached.
44	Providing and fixing water closet squatting pan (Indian type W.C.Pan) size 580 mm. vitreous china long pattern white colour 100 mm. size P or S trap with jointing the trap with the pan & soil pipe in C. M. 1:1 and fixing a pair of footrest of size 250 mm. x 130 mm. x 30 mm., in C. M. 1:3 fixing and G. I. Inlet connentions for flush pipe with W.C. PAN etc. complete.	As per Separate Sheet attached.
45	Providing and fixing cast iron (spun) Nahni trap of the following nominal diameter of self cleaning design with C. I. Screw down or hinged grating including cost of cutting and making good the walls and floors 100 mm inlet and 50 mm outlet.	As per Separate Sheet attached.
46	Providing and fixing S.W Gully trap with C.I grating brick masonry chamber and water tight C.I.cover with frame of 300 mm x 300 mm size (inside) with standard weight. (i)Square mouth traps.(B) 150 mm x 100 mm size -P or R type.	As per Separate Sheet attached.
47	Providing & laying, jointing in true line and level 110 mm diameter UPVC (Type-B ) conforming to IS 13592 -1992 with one end plain and other end socketed with rubber ring & fittings conforming to ISI 14735 - 1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant , pipe shall be fixed on wall using of PVC clamp of the size 110 mm dia. 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 cost of all materials.	As per Separate Sheet attached.
48	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35 kg./sq. cm. In C. M. 1:5 C.I. Cover with frame (lightn duty) 455 x 610 mm internal dimensions total wt. of cover with frame to be not less than 38kg. (weight of cover 23 kg. & wt. of frame 15 kg.) R.C.C. top slab with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm. nominal size) foundation concrete 1:5:10. Inside plaster 15 mm thick with C.M. 1:3 finished smooth with a floating coat of neat cement on wall & bed concrete etc. complete (i) inside dimensions 455 x 610 mm. x 450 mm. deep for single pipe line.	As per Separate Sheet attached.
49	Constructing soak well having diameter of 2.25 M and depth of 3.30 m including excavating honey com masonry in C.M. 1:3 of half back masonry and filling the 1.0 m. depth with bick bast covering the top with R.C.C. slab of 7 cm. thick with necessary opening covered by the stone and jointed with cement and filling the necessary earth on it.	As per Separate Sheet attached.
50	Supplying and fixing PVC water tank of ISI make including delivery at site, supply and fixing of inlet, outlet, air vent overflow, Ball cock, drainage sleeves of the specified size, with necessary neo-prene gasket / packing / washers, GI washer & check nuts etc. complete as directed on terrsce, loft in bathrooms etc in any height. The rate shall include for fixing additional accessories supplied by the supplier accessories.	As per Separate Sheet attached.

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51	Providing and fixing wash basin with single hole for pillars tap with C.I. or M. S. brackets painted white incl. cutting holes and making good the same including fixing M. I., fisher union of 40 mm. dia., C. P. Brass waste of 40 mm. dia, 15 dia pillar tap and brass screw down stop tap of 15 mm dia and etc. complete. (A) Vitreous china (ii) flat back wash basin 550 mm x 400 mm size in white colour	As per Separate Sheet attached.
52	Providing and fixing urinal of approved quality connecting the urinal with waste pipe trap etc. complete. (A) White eathern ware flat back or corner type size:- 430 mm. x 260 mm x 350 mm	As per Separate Sheet attached.
53	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 (1 cement : 1 fine sand) (seat and cover to be measured and paid seperately) with Black plastic seat and cover for wash down water closet with C.P. brass hinges and rubber buffers.	As per Separate Sheet attached.
54	Contructing A ground level sump for storage a drinking Water with monoblock motor pump set with wooden box cover for motor etc. complete.	As per Separate Sheet attached.
55	Providing septic tank of inside dimensions( 2.5 mt. x 2.0 mt.x 1.5 mt.) as Directed by incharge with brick masonry of CM 1:6 the foundation floor with 1:5:10 B.B.C.C. finished with 15 mm C.P. in C.M. 1:4 root cover of R.C.C. slab incl. connection pipe from inlet and outlet etc.complete.	As per Separate Sheet attached.
56	Providing and laying China Mosaic type water proofing treatment on terrace including (a) Applying neat cement slurry 2.75 Kg./Smt. of cement admix with water proofing compound after cleaning the surface (b) laying cement concrete using brick bats 25mm to 100mm size with 50% cement mortar 1:5 (1 cement : 5coarse sand) admixed mortar proofing compound over 20mm thick layer of cement mortar 1:5 to required slope including rounding of junctions of walls and slabs (c) after two days of proper curing applying a second coat of cement slurry (d) finishing the surface with 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and china mosaic tilling & finally finishing the surface with trowel with white cement slurry (e) after finishing the whole terrace shall be flooded with water for a period of two weeks.	As per Separate Sheet attached.
57	PROVIDING BORE & SUBMERSIBLE MOTOR PUMP OF 250 MM DIA & 50 mt. Depth IN ALLUVIAL STRATA BY DIRECT ROTARY RIG. including all the taxes complete As per instructed by EIC.	As per Separate Sheet attached.
58	Providing & Fixing Almonard make Heavy duty Exhaust fan 12" (300 mm) including fitting charge and necessary Electrical Wiring Connection.complete as dircted by Engineer in charge.	As per Separate Sheet attached.
59	Providing & fixing in position collapsible steel shutters with vertical channels 20 x 10 x 2 mm braced with flat iron diagonals 20 x 5 mm size with top and bottom rails of T_ rin 40 x 40 x 6 mm with 38mm dia.steel pulleys complete with bolts, nuts, locking arrangements, stoppers handles including applying a priming coat of read lead paint.	As per Separate Sheet attached.
60	Providing and fixing rolling shutters of approved make made of 80mm wide M.S.Laths inter locked together through their entore length and jointed together at the ends by and locks mounted on specially designed pipe shaft with bracket plates, guide channels and arrangements for inside and outside locking with push-pull operation complete including cost of hood cover and spring (B) Shutter having width above 3.5 m.	As per Separate Sheet attached.

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61	Providing and fixing pre-cast Rubber Dye inter locking concrete block 80 mm thick with grade of concrete M-200 pneumatic compressed by mechanically pressed and as per approved design including 75 mm Sand layer for levelling and filling the joint with sand in proper line and level etc complete as directed by Engineer in charge.	As per Separate Sheet attached.
62	Dismantalling the existing building as directed by engineer in charge.	As per Separate Sheet attached.
63	Point wiring for Light / Fan/ Bell/ Primary Point with 2-1.5 sq. mm & earthwire of 1.5 sq. mm (green) both are of ISI marked 1.1 kv grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in /flushed on wall/ceiling, complete with 6A Tissino Type ISI marked flush type switch / bell push and accessories erected on Metal / PVC Box covered with 3 mm thick PC (Polycarbonet) / Acrylic sheet. with necessary Lamp holder/ceiling rose / H.D. Connector as directed. (e) in existing pipe	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
64	Point wiring for independent PLUG with following size mains earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in /flushed on wall/ceiling , complete with ISI marked 3 / 5 Pin socket and tissino type switch erected with earth continuity connection erected on Metal / PVC box covered with 3 mm thick PC (Polycarbonet) / Acrylic sheet, (e) in existing pipe, Cat-II [B] 16A Plug with 2-2.5 sq. mm Cu. Mains	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
65	Point wiring for looped PLUG with tissino type single pole ISI marked Switch and Socket erected with necessary connections erected on wooden /Metal/ PVC Box covered with 3 mm thick PC (Polycarbonet) /Acrylic sheet for open / concealed wiring for following size, [A] For 6 Amp	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
66	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, (e) in existing pipe, (b) 2 wire 2.5 sq. mm	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
67	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 (e) in existing pipe(b) 2 wire 6 sq. mm	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
68	Supplying & erecting UPVC Mini trunking (PVC Casing-n-Capping) having double-locking arrangement with grooves, trunking of size not below 12.5 mm in height as per IS with accessories of PVC/Resin polypropylene not below 1.8 mm thick duly sealed in joint & erected on wall / ceiling of following size .(2) 25 mm	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
69	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity, (B) 40 Amp, Cat-II	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
70	Miniature circuit breaker single pole 6A to 32A 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-II	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
71	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on single phase 240 V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed, (ii) 40 Amps. DP, Cat-II	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66

It. No.	Description of Item	Applicable specification reference
72	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used), (F) Single phase 8 way SS Double door,	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
73	Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
74	Providing and erecting Approved make Ceiling fan with double ball bearing ISI mark with condenser A.C. 230V.50 c/s.1200 mm. sweep complete, canopy and 30 cms. down rod erected on existing hook or clamp with 24/0.2, 3 core flexible wire with earthing. [Make shall be approved by Engineer in charge], Cat-II	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
75	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) Tube light with integral driver.(d)22-24 Watts, Surge 2KV,IP20,4 feet Cat-II	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
76	Providing & erecting following Shockproof tissino type accessories erected on 3 mm thick PC (Polycarbonate) sheet in PVC/ Metal Box. erected on wall/ ceiling, (14) Electronic Hum free EME Socket Type Steps Fan Regulator,	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
77	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	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
78	(A) LED Lamps integral type, with PC diffuser suitable LAMP holder (b) 5 to 8 watts cat-II	The relevant specification shall be followed as per Tender for Electrical works booklet. P.1 to 66
79	Providing and laying cement concrete 1:3:6 (1 Cement : 3 coarse sand : 6 Crushed stone agg.of 20 mm nominal size) and curing completeexcluding cost of form work in (a) Foundation and plinth	As per Separate Sheet attached.
80	Providing and laying Cement Concrete 1 : 3 : 6 ( 1 Cement : 3 Coarse Sand : 6 Crushed stone aggregates 20 mm nominal size ) and curing complete including cost of form work in (a) Wall Caps / Copings)	As per Separate Sheet attached.
81	Providing and fixing M.S.Grills of required pattern with M.S.Flats at required spacings and frame alround,square or round bar,with round headed bolts and nuts or by screws plain grill including approval quality of primer and two coat of oil painting etc.	As per Separate Sheet attached.
82	20mm thick sand faced cement plaster with Gutka on walls upto height 10 meters above ground level consisting of 12mm thick thick backing coat of C.M. 1:3 (1 cement : 3 sand) and 8mm thick finishing coat of C.M. 1:1 (1cement : 1 sand) etc. complete including painting with two coats of water proofing cement paint to give an even shade.	As per Separate Sheet attached.

It. No.	Description of Item	Applicable specification reference
83	Excavation for foundation upto 1.50 mt. depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 meter lead. Dense or Hard soil.	As per Separate Sheet attached.
84	Providing and filling in foundation with ordinary cement concrete M 100 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete.	As per Separate Sheet attached.
85	Providing and filling in foundation with ordinary cement concrete M 150 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete.	As per Separate Sheet attached.
86	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts including setting and jointing the pipes in cm 1:2 watering and laying (to level of slope) of I.S class NP-3 of following internal diameters in 900mm dia.	As per Separate Sheet attached.
87	Providing and fixing number plate of marble stone of required size set in C. M. 1 : 4 including finishing and engraving letters etc. complete.	As per Separate Sheet attached.
88	White washing with lime on wall surface (two coats) to give an even shade including thoroughly booming the surface to remove all dirt, dust; mortar drops and other foreign matter.	As per Separate Sheet attached.
89	Providing and constructing a junction chamber of size 0.35 × 0.35 × 0.6 mt, including connecting rainwater pipes as per detail drawing or as directed by Engineer in charge	As per Separate Sheet attached.
90	Providing and laying in ground 100 mm Diameter, P.V.C. Rain water pipe with necessary fittings connection as per detail drawing or as directed by Engineer in charge	As per Separate Sheet attached.
91	Providing and laying in ground 150 mm Diameter, P.V.C. Rain water pipe with necessary fittings connection as per detail drawing or as directed by Engineer in charge	As per Separate Sheet attached.
92	Providing and constructing filter Chamber of size 2.06 × 1.21 × 1.20 mt, including connecting Rain water Pipes as per detail drawings or as directed by Engineer in charge	As per Separate Sheet attached.
93	Constructing Percolation Sockwell of 2.54 mt internal clear diameter and 5.00 Mt depth including brick massonry in C:M 1:6, R.C.C. top slab of 10 cm thick, filling with gravel etc, complete as per detail drawing or as directed by Engineer in charge.	As per Separate Sheet attached.
94	Providing and Supply and fix multi purpose ABC Dry Chemical Powder Stored pressure type fire extinguisher IS 15683, ISI marked. Brand : Safety fire	As per Separate Sheet attached.
95	Providing and Supply and fix water stored pressure type fire extinguisher IS 15683, ISI marked. Brand: Safety fire	As per Separate Sheet attached.
96	Office Table :- 18mm thick three layer pre laminated particle board Work with PVC Edge band 2mm thick wrapped around the top, Decorative aluminium bidding in top and modesty including all necessary elements with necessary features and fastning finish all as per directed by Engineer in charge. 6 FT Office Table (Dimension :- 180 cm x 90cm x 75 cm) with suitable brand.	As per Separate Sheet attached.
97	Revolving Chair :- Mid-Back Mesh Office Chair Ergonomic Swivel Computer Chair, Lumbar Support Adjustable Height Task Chair with Armrest (Black) with suitable brand.	As per Separate Sheet attached.
98	File Rack :- lack Adjustable 5-Shelf Shelving Unit Storage Rack Utility Rack Garage Shelves Display Rack Steel Boltless Rivet Rack, 60 inches Height 1-Pack ({5 - SECTION } 5' [H] X 2'[L] X 1'[D]) with suitable Brand.	As per Separate Sheet attached.



<b>It. No.</b>	<b>Description of Item</b>	<b>Applicable specification reference</b>
99	Internal Storage : Tidying up will be a thing of the past with this multiple shelving unit. Cleverly designed internal structure allows easy categorisation and storage. Durable CRCA Steel Construct : CRCA Steel has stood the test of time and durability. Sleek Design : The furniture with which you furnish your office reflects your style and sensibilities. The sleek Wardrobe adds style points to your office Dimensions W x H x D (cm): 91.4 x 198.1 x 48.3 / Primary Material : Mild Steel	As per Separate Sheet attached.
100	Visiting Bench :- Chair Three Seater Waiting Area Chair Reception Chair 325-350 Kg Weight Handling Capacity. Durable Parts And Support, Our Chairs Have Whole Welded Connections Product Dimensions: Length (70 inches), Width (23 inches), Height ( 31 inches) Color: Shining Silver, Material : Mild Steel ( Iron ), Finish: Chrome Finish, Style: Contemporary	As per Separate Sheet attached.
101	Steel Stool :-Office Chair Stainless Steel Stool with suitable Brand.	As per Separate Sheet attached.
102	Chair :- Web Designer Plastic Chair for Office Armless with suitable Brand.	As per Separate Sheet attached.

Deputy Executive Engineer  
Panchayat (R & B) Sub Division  
Balasinor

Executive Engineer  
Panchayat (R & B) Division  
Mahisagar