

SCHEDULE-B

Name of work:- "Special repairs to RFID cum data centre building adjoining to Seva Sadan III at New Kandla"

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
1	Removing of existing sanitary ware i.e. washbasin, urinal, orissapan etc. including all accessories & stacking of all the serviceable material as directed by Engineer in charge	4.00		Each	
2	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
	In cement mortar	29.00		m3	
3	Demolishing brick/block masonry work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	3.50		m3	
4	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	16.00		m3	
5	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :	8.00		Each	
6	Dismantling C.C./R.C.C. jafri of thickness upto 75mm including disposal of unserviceable material with 1.00 km meters lead as directed by Engineer-in-charge.	279.00		m2	
7	Dismantling tile work in floors/walls and roofs laid in cement mortar including disposal of unserviceable material within 1.00 Km lead as directed by Engineer-in-charge.	507.00		m2	
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	72.00		m3	
9	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. cement mortar 1:4 (1 cement : 4 coarse sand)	21.00		m2	
10	Plastering with cement mortar 1:4 over a new/old surface including hacking the old surface or raking out the joints as the case may be, scrubbing, cleaning, finishing smooth, curing etc. complete for interior/exterior plastering upto floor five level.				
(a)	12 mm thick	2656.00		m2	
11	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	25mm thick	25.00		m2	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
12	Providing and laying mat finish full body vitrified parking tiles of 16 mm thickness of size 600x600 mm or more of 1st quality of approved make, in all colours, shades laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing/filling the joints/grooves with epoxy filler and matching pigments etc., complete as directed by Engineer in charge.	568.00		m2	
13	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer), of approved make, in all colours and shades,laid with 06 to 20 mm thick cement based high polymer modified quick set tile adhesive (water based) including grouting the joints with epoxy filler and matching pigments etc., complete as directed by Engineer in charge.				
(a)	size of tile 800mm X 1600mm	324.00		M2	
14	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer) of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, walls laid with cement based high polymer modified quick set tile adhesive (water based) , in average 6 to 20 mm thickness, including grouting of joints with epoxy filler, complete as directed by Engineer in charge.				
(a)	Size of tile 600mm X 1200 mm	744.00		m2	
15	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building, sills, lintels,steps of stair 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. round moulding the edge, rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	87.00		m2	
16	Providing and laying Polished Granite stone tilesg in required design and patterns, in linear as well as curvilinear portions of the building, windows/doors soffits, lintels,risers of stair complete laid with cement based high polymer modified quick set tile adhesive (water based) , in average 6 mm thickness and pointing with white cement slurry admixed with pigment of matching shade, including. round moulding the edge, rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	47.00		m2	
17	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work,including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer all complete	8468.00		kg	
18	Removing old paint or polish from wood and wood based/masonry/plaster surface with paint remover of approved brand or with grinder, scourer etc and making the surface even.	1321.00		m2	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
19	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 5x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I.wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of 131 primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills,diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	313.00		m2	
20	wall/roof painting with plastic emulsion of approved brand shade make and manufacture on undecorated wall surfaces to give an even shade including thoroughly brushing the surface clear of all mortar droppings and other foreign matters and sanding etc. complete all labour,material, tools & tackles as directed.				
	(a) two coats with one coat of water based primer	313.00		m2	
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
a	15 mm nominal outer dia Pipes	27.00		Rmt	
22	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
a	32 mm nominal outer dia Pipes metre	100.00		Rmt	
b	40 mm nominal inner dia Pipes	75.00		Rmt	
23	Providing and fixing white vitreous china wall hang type water closet (European type) with seat and lid, 6 to10 litre PVC concealed flushing cistern/Metropole & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors complete with all fittings and labour as directed by Engineer in charge.				
	0	7.00		Each	
24	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	6.00		Each	
25	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste coupling of standard pattern, including painting of fittings, bottle trap and brackets, cutting and making good the walls wherever require:				
	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	6.00		Each	
26	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, bottle trap including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink with drain board				
	610x460 mm bowl depth 200 mm	1.00		Each	
27	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched 1.00 mm thick Laminate sheet(Sunmica) on both faces of shutters. 50 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	40.00		m2	
28	PROVIDING & FIXING OF FURNITURE,BELOW KITCHEN PLATFORM INCLUDING ALL THE MATERIAL LABOUR AS DIRECTED BY ENGINEER IN CHARGE & AS PER DRAWING & AS PER SPECIFICATION				
	4 to 8 SHUTTERS-19MM SINGLE PLY+FRONT LAMINTE +AUTOHINGES AND INSIDE ENAMEL PAINT, FRONT LAMINATE+TELESCOPE CHANEL, INSIDE ENAMALE PAINT + ALL EDGES PU POLISHED,CLOSED SHELVES INSIDE SHUTTERS ENAMALE PAINT,SIDE PLY- 19MM THICK PLY+ ENAMEL PAINT				
	DRAWERS-19MM SINGLE PLY+SS 304 GRADE BASKET AS PER DRAWING DIMENSION				
	FRONT LAMINATE+TELESCOPE CHANEL(SOFT CLOSE)				
	FINISHING MATERIAL -ALL INTERNAL SURFACES TO BE COVERED BY ENAMEL PAINT, EDGES OF SHUTTERS & DRAWERS PU POLISHED	4.20		M2	
29	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	815.00		m2	
30	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works				
	Two or more coats on new work	60.00		m2	
31	providing & fixing of wall panels with following specifications including all material & labour as directed by engineer-in-charge and as per drawing				
	12 mm ply box framing with internal hollow space of 64.2 mm to cover conduits/wires,1 mm sunmica from outside.12 mm ply at back+ 6mm soft ply covered with fabric,switch boards as per drawing				
	or				
	12 mm ply box framing with internal hollow space of 64.2 mm to cover conduits/wires,1 mm sunmica from outside,12mm x6mm polished groove in ply ,light (electric) point				
	or				

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	12 mm ply box framing with internal hollow space of 64.2 mm to cover conduits/wires,1 mm sunmica from outside,12mm x6mm polished groove in ply				
	or				
	12 mm ply box framing with internal hollow space of 80 mm to cover conduits/wires,1 mm sunmica on outside,12mm x6mm polished groove in ply ,light and switch board (electric) point,palmet space for curtain above lintel level				
	or				
	12 mm ply box framing with internal hollow space of 80 mm to cover conduits/wires,1 mm sunmica on outside,12mm x6mm polished groove in ply ,light and switch board (electric) point,palmet space for projector screen above lintel level	319.00		m2	
32	providing & fixing of Roller blinds on the windows with all necessary fixtures and all its accessories as per requirement and of approved colour and make complete with all labour and material etc. as directed by engineer in charge.	59.00		m2	
33	providing & fixing of executive 360' revolving office chair with high back and ss body base with wheels & pneumatic up & down with one point locking mechanism + pu foam at seat and back ,fabric as per engineer's drawing	12.00		each	
34	providing & fixing of visitor 360' revolving office chair with low back and ss body base with wheels & pneumatic up & down with one point locking mechanism + pu foam at seat and back ,fabric as per engineer's drawing	20.00		each	
35	providing and fixing 3seater sofa dimension 1.83m(L)X 0.80M(D)X0.76M(H),Upholstered in fabric and should be in compliance with the following specifications.frame-seasoned solid wood with plywood boxing that undergoes a 3 -step treatment for protection against borers and is kiln-dried for moisture control.Seat, backrest and armrests - padded with polyurethane foam and upholstered and designed to combat sagging.The multi-density foam in the seat cushions to reduce sagging .A grid of polyfill pockets in the back cushions to prevent the cushions from weighing down because of gravity.base of seat and backrest equipped with metal Z-shape springs. Flammability - the flammability of the fabric should comply with BS 5952 Part 1 1979 Ignition Source O (Cigarette).	4.00		each	
36	providing & fixing of corner table as directed by engineer-in-charge and as per drawing with following specifications.				
	size 0.76 x0.60 , 19 mm thick double ply box framing + laminate c/u shape (refer drawings)	8.00		each	
37	providing & fixing of centre table as directed by engineer-in-charge and as per drawing with following specifications.				
	size 0.60 x0.60 , 19 mm thick double ply box framing + laminate c/u shape (refer drawings)	2.00		each	
38	Providing and fixing conference table, should be in compliance with the following specifications to provide Long service life with less maintenance and Better quality.Shape - Boat shapedTabletop - The power/data centre should be integrated into the tabletop, allowing it to close when not in use (i.e. with cover), for a clean appearance. Tabletop power/data centre(s) provides convenient access for individual users, technical presentations etc.Top finish – engineered wood / veneered or laminated (matt finish),Table edge - Bullnose Edge/ Bevel Edge/ Double Radius. The table should be provided with necessary first classs teak wood supports etc.	27.00		m2	
39	providing & fixing of ceiling mounted projector (full hd) of EPSON EH- TW5650 MAKE or equivalent with its complete fixing accessories/cables etc. as directed by engineer-in-charge.	1.00		each	
40	providing & fixing of projector screen(3D WITH FULL HD) Of Elite make or equivalentas directed by engineer-in-charge and as per drawing	1.00		each	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
41	providing & fixing of 5.1 speaker system of JBL CINEMA 510 OR EQUIVALENT as directed by engineer-in-charge and as per drawing	1.00		each	
42	providing & fixing of art effects ex. paintings, flower vase, wall pieces etc as directed by engineer-in-charge and as per drawing	24.00		each	
43	Providing and fixing 12 mm thick toughned glass in door/railing including all S.S. 304 locks, handles, bolts, hinges and quality fittings + pvc film door as directed by engineer-in-charge and as per drawing	23.00		m2	
44	Providing and fixing 10 mm thick toughned fluite glass door including all S.S. 304 locks, handles, bolts, hinges and quality fittings as directed by engineer-in-charge and as per drawing	2.00		m2	
45	Providing and fixing brass bib cock of approved quality :				
	15 mm nominal bore	10.00		each	
46	Providing and fixing brass stop cock of approved quality :				
	15 mm nominal bore	10.00		each	
47	Providing and fixing CP brass swivelling shower, 15 mm nominal bore, of approved quality	1.00		each	
48	Providing and fixing glazing in aluminium door, window, panelling, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	With reflective glass panes of 5.00 mm thickness	66.00		m2	
49	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing to be paid for separately) :				
a	for fixed portion				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	300.00		Kg	
50	Providing and fixing composite alluminium panelling with 3mm PVDF coated with required alluminium pipe of (1"x1/2") or 25mm x 18mm of 1.2 mm thickness framing, M.S. structure framing, cutting fixing, silica filling with 995 silicon etc. complete with all labour and material as directed.	36.00		m2	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
51	Providing and laying in situ six course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film.				
		584.00		m2	
52	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains, including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
A	All kinds of soil.	461.00		m3	
53	Disposal of excavated stuff/demolished concrete etc. up to lead of 2.00 km by motor truck including loading, unloading and dressing at the disposal site as directed by engineer in charge.	461.00		m3	
54	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	23.00		m3	
55	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	23.00		m3	
56	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping/ placing of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
A	All works upto plinth level	50.00		m3	
B	All works above plinth level upto floor V level	34.00		m3	
57	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete .				
A	Thermo-Mechanically Treated bars of grade Fe- 500D or more.				
I	UPTO PLINTH LEVEL	6000.00		KG	
II	ABOVE PLINTH LEVEL	4760.00		KG	
58	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
A)	Foundations, footings, bases of columns, etc. for mass concrete	102.00		M2	
B)	Lintels, beams, plinth beams, girders, bressumers and cantilevers	116.00		M2	
C)	Columns, Pillars, Piers, Abutments, Posts and Struts	161.00		M2	
59	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size)				
I)	Cement mortar 1:6 (1 cement : 6 coarse sand)	19.00		m3	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
60	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (first class teak wood).	0.65		m3	
61	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	15.00		each	
62	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
A	250x10 mm	17.00		each	
63	Providing and fixing bright finished brass handles with screws etc.complete:				
A	125 mm	34.00		each	
64	Providing and fixing bright finished brass hasp and staple (safety type)with necessary screws etc. complete :				
a	115 mm	17.00		each	
65	Providing and fixing bright finished brass aldop with necessary screws etc. complete :				
a	300 X 16 mm	17.00		each	
66	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	17.00		each	
67	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi- chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile),appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg),G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc.After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in- Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately)				
a	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)	38.70		m2	
b	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	5.00		m2	
68	Providing & fixing PVC Nahni trap 100 mm dia. with necessary fittings, making good the walls & floor, including cost of labour, materials etc., complete as directed.	9.00		each	
69	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,(i) Single socketed pipes.				
	110 mm diameter	32.00		Rmt	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
70	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length,including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110 mm	16.00		Each	
71	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type with common burnt clay F.P.S. (non modular) designation 7.5	4.00		Each	
72	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	Inside size 120x90 cm and 90 cm deep including R.C.C cover of required size with reinforcement as directed by Engineer in charge : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4.00		Each	
73	Providing, laying & jointing PVC pipes of required working pressure as per I.S.I. 4985 including cutting and jointing the pipe ends as per manufacturer's instructions including the cost of specials wherever required and, excavation and refilling of the trenches or fixing on walls or similar structures with clamps and testing the joints etc. complete as directed.				
	Pipe 160 mm outer dia. working pressure 6 kg/cm2.	50.00		Rmt	
74	Providing & fixing SWR PVC (I.S.I - IS 13592) waste or vent pipe including necessary specials such as Tees, Bends, Y's Plinth offsets, Shoes , Vent cowl etc . with bracket , screws on wooden plugs fixed on wall face including filling joints with solution & cement mortar 1:2 complete as directed. 110 mm dia. (OD)	60.00		Rmt	
75	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (white coloured with tripple layer inside) complete as directed by Engineer in charge.	4000.00		Ltr.	
76	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	1.00		Each	
77	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	8.00		Each	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
78	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	313.00		M2	
79	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	25.00		M2	
80	Supplying, testing, commissioning RO Plants of 150 Litre per hour capacity (including required PVC water tank) of approved make which consists of all necessary parts viz motor pump of required capacity, multipart valve, 20" bowl & filter silver process of high pressure pump of required capacity, multipart valve, 20" bowl & filter silver process of high pressure pump of required capacity, membrane, Rotameter, pressure meter, electric panel with M.S. Cabinet all necessary Electric & other connection required to commissioned the RO Plant which gives the required TDS complete with loading, unloading & Transportation, Installation including all taxes with one year warrantee and maintenance free.	1.00		Each	
81	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.				
	80x1.25 mm M.S. laths with 1.25 mm thick top cover	16.00		M2	
82	Extra for providing mechanical device chain and crank operation for operating rolling shutters.	16.00		M2	
83	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a	25 mm nominal bore	6.00		Each	
b	32 mm nominal bore	6.00		Each	
84	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	1725.00		M2	
85	Engagement/deployment of a qualified Interior designer i.e. B.E. (Civil)/ B.E.(Arch)/Diploma in interior designing to give designs of interior/exterior finishing items in consultation with Engineer in charge and as approved by Engineer in charge. The Interior designer shall provide drawings for all the finishing items as well as plumbing, sanitation and electrical items as per the specifications considered in the schedule B.	1.00		job	
86	Providing and fixing Suspended False Ceiling which includes pine wood louvers and thermal insulated acoustic sheets ., False Ceiling on 24 gauge G.I. frame work which includes Providing & Fixing G.I. perimeter channels 0.55 mm thk 20mmx30mm, web size 27mm along perimeter of ceiling, screw fixed to brick wall/partition with nylon sleeves & screws @ approx. 2'0" c/c. Suspending G.I. intermediate channels size 45 mm,0.9 mm thk, flanges of size15mm each from the soffit 1220mm c/c with ceiling angle 25 x10mm x 0.55mm thk fixed to soffit G.I. cleat & steel expansion fasteners.				
	Ceiling section of 0.55mm thk having web of 51.5mm & flanges 26 mm each lips 10.5 mm fixed to intermediate channel with connecting clips & perpendicular to int channel @ 457mm c/c.12.5 mm tapered edge Plaster board (IS 2095-1982) screw fixed to ceiling section with 25mm dry wall screws @ 230 mm c/c. Boards to be joint & finished so as to have flush look including filling finishing edges with jointing compound paper tape/cloth gauze & 2 coats of primer suitable for plaster board. Rate to include M.S. framing around A/C ducts wherever necessary.				

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
	Also include cove to profile, cut-outs for light fixtures, spotlights, smoke detectors, Pelmet, Vertical risers as required, and all services cut outs as required				
	Note: for Light fittings, Grills, diffusers and other cut-outs have to be made with a frame of perimeter channels of size 20mm x 27mm x 30mm x 0.55mm thk, supported suitably. Quoted rate shall also include the Engineered system made up of primary sections in galvanized steel of 21x35x3600mm in 0.75 bmt gauge. with top cross rails and the system shall be used at 1200mm apart where direct suspenders cannot be used due to overhead ducting or any other service				
	Ceiling Suspension System				
	Proprietary supplied ceiling suspension system to consist of 2mm or 3mm GI suspension rod/wire with adjustable threaded "J" bolt of 3mm dia securely affixed to structural ceiling using soffit angle fixing bracket and 10mm dia hook type anchor fastener. Ceiling suspension system to be fixed at interval (grid) of 1200mm in both directions.				
	Proprietary supplied Grid System to consist of Main Runners @ 600mm and joined by Cross Tees @ 600mm to form overall grid opening of 600mm x 600mm. Additional cross tees are to be placed where appropriate for light fixtures, AC diffusers.				
	The grid system used shall be hot dipped galvanized steel sections, with exposed surfaces chemically cleaned and capped prefinished in high - gloss polyester enamel with two coat system on cold rolled steel.				
	Grid member sizes				
	Main runners : 15mm X 40mm X 0.38mm Cross tees : 15mm X 40mm X 0.38mm Perimeter section : 14mm X 20mm X 0.43mm				
	and includes all cut-outs required for light fixtures, smoke detectors and other services cut-outs complete as directed by Architect and Engineer in charge.	80.00		M2	
87	Providing & fabricating floating storage formed out of 18mm thick ply with laminate finished in 1mm thick approved laminate consisting of storage with shutter, & .8mm thick approved laminate inside. The shutter of the storage shall be formed out of 18mm thick ply finished in 1mm thick approved laminate on the external side. with 1mm thick approved laminate on the inside mounted over spring loaded auto closing hinges of approved make, tower bolt, complete as per Architects instruction and as approved by Engineer in charge.				
	Storage to be complete with hardware installed as directed to consist of the following. Shutter to have auto-closing spring loaded hinge of approved make installed strictly as per manufacturers guidelines. All necessary tools should be strictly used for correct installation of hinges. Each set of shutters to be provided with 1 Nos. chrome finished multi-purpose lock of approved make, 75mm medium sized stainless steel tower bolt, 1 Nos. heavy duty SS ball catch, 100mm C type brushed SS handle	18.00		M2	
88	Providing & fabricating wall panelling with 12mm ply over 50mm X 50mm solid pine wood (seasoned and dried) frame structure beneath, and complete thermopine cladding 12 mm to 26mm thick with polyurethane coated polish and necessary attachments	130.00		M2	
89	Providing and fixing Fiber wool and rock wool sheets for insulations and filling gaps in the grids with NRC 0.8-1.0	130.00		M2	
90	Supplying & placing in position medium back chair with following specification.				

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
	Seat rest: Two Pieces of PP Plastic injection seat shells connected by 4 nos of self-tapping screws. 50 mm range of adjustment of slidable seat. Common mounting opening ready with M6 nut for all different type of mechanisms, arms, and backbones. Seat rest with polyurethane coat heavy duty foam and upholstered with approved Fabric.	15.00		No.	
	Back rest: The medium back rest in fabric over frame. The back rest to have provision of height adjustable backrest for an optimum adjustment of the lumbar support, to be either by turning knob or push- button. upholstered with mesh				
	Mechanism: Synchronised moment of back and seat A 2 to 1 ratio and pivot point under the front ridge of seat. Pivotal pressure point of backrest provides full support in upright and any reclining posture. Tilt lock in multiple position and has reclining angle of 160 the reclining tension of backrest can easily be adjusted to a bodyweight ranging from 65 to 115 kg by a small and unobtrusive tension knob at the bottom of the mechanism. It also come with an anti- shock device to prevent the backrest from hitting the sitter while unlocking the mechanism. All adjusting elements ae easy to handle and accessible in each sitting posture.				
	Gas lift: 100mm stroke imported pneumatic gas lift with 130mm range height adjustment and thrust force 400 newton.				
	Arm rest: P.P Plastic injection arm height adjustable (60mm range of adjustment) and arm support angle swivel able possibility				
	Base: MS powder coated base with high tonnage compression available in natural polished finish				
	Castors: Twin wheel high resistant polyamide castors.				
91	Providing flooring with IPE wood (imported Brazilian wood) with 26mm thk and 4 to 6 inch width planks inter linked with joints and fixed over aluminium channelling of suitable size and spacing complete with all labour and material as directed by Engineer in charge.	80.00		M2	
92	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	2400.00		M2	
93	Painting steel work with PU Paint of required shade, two coats applied as per manufacturer recommendation over an under coat of suitable of approved brand and manufacture.	200.00		M2	
94	Providing various types of decorative plants and trees as selected by Engineer in charge, including digging the holes of required size, pouring suitable manure, watering etc. having height of 03 to 08 feet height complete.	50.00		Each	
95	Providing natural grass/lawn as selected by Engineer in charge, including digging the surface, pouring suitable manure, watering etc. complete as directed by Engineer in charge.	2400.00		M2	
96	Supplying and filling sweet earth/black cotton soil including levelling, dressing, breaking clods complete as directed by Engineer in charge.	720.00		M3	
CONTRACTOR		SUPERINTENDING ENGINEER(H)			