

NAME OF WORK:- Upgradation of Maternity Ward & Labour Room at CHC Katwara Ta. Dahod Dist.Dahod.			
ITEMWISE SPECIFICATION			
Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
		CIVIL WORK	
Item No.	1	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	<i>Separate sheet attached.</i>
Item No.	2	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	<i>Separate sheet attached.</i>
Item No.	3	Dismantling C.I. pipes G.S.W.pipes abd A.C. rain water pipes with fittings and clamps including stacking the materials with all lead and lift (for any dia, of pipe)	<i>Separate sheet attached.</i>
Item No.	4	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.	<i>Separate sheet attached.</i>
Item No.	5	Filling in plinth with murrum or selected soil in layers of 20 cm. thickness including watering, ramming and consolidating upto optimum moisture content level. etc. Complete.	<i>Separate sheet attached.</i>
Item No.	6	Filling in plinth with sand under floors including watering, ramming, consolidating and dressing etc. complete	<i>Separate sheet attached.</i>
Item No.	7	Providing and laying cement concrete work 1:2:4 (1- Cement: 2- Coarse sand: 4- graded stone aggregates 20 mm nominal size) and curing complete including cost of formwork in (A) Foundations and plinth	<i>Separate sheet attached.</i>
Item No.	8	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	<i>Separate sheet attached.</i>
Item No.	9	Providing and laying in position control cement concrete mix M-200 grade for reinforced cement concrete work, using cement content as per approved design mix including , cost of Centering, shutterings, finishing, grouting if required, admixture in recommended proposition as per IS:9103 to accelerated, retard, setting of concrete, improve workability as per direction of engineer in charge and approved, rates includes all levels, heights as specified, excluding reinforcement.. (No extra will be paid in variation of cement level, minimum cement level will be as per IS 456 (rates for centering, shuttering, formwork staging scaffolding for considering up to 4.50m height) RCC Slab	<i>Separate sheet attached.</i>
Item No.	10	Providing and laying in position control cement concrete mix M-200 grade for reinforced cement concrete work, using cement content as per approved design mix including , cost of Centering, shutterings, finishing, grouting if required, admixture in recommended proposition as per IS:9103 to accelerated, retard, setting of concrete, improve workability as per direction of engineer in charge and approved, rates includes all levels, heights as specified, excluding reinforcement.. (No extra will be paid in variation of cement level, minimum cement level will be as per IS 456 (rates for centering, shuttering, formwork staging scaffolding for considering up to 4.50m height)RCC Beam	<i>Separate sheet attached.</i>

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Item No.	11	Providing and laying in position control cement concrete mix M-200 grade for reinforced cement concrete work, using cement content as per approved design mix including , cost of Centering, shutterings, finishing, grouting if required, admixture in recommended proposition as per IS:9103 to accelerated, retard, setting of concrete, improve workability as per direction of engineer in charge and approved, rates includes all levels, heights as specified, excluding reinforcement. (No extra will be paid in variation of cement level, minimum cement level will be as per IS 456 (rates for centering, shuttering, formwork staging scaffolding for considering up to 4.50 mt.height) (C) RCC Weathershed upto all Floor.	<i>Separate sheet attached.</i>
Item No.	12	Providing and laying in position control cement concrete mix M-200 grade for reinforced cement concrete work, using cement content as per approved design mix including , cost of Centering, shutterings, finishing, grouting if required, admixture in recommended proposition as per IS:9103 to accelerated, retard, setting of concrete, improve workability as per direction of engineer in charge and approved, rates includes all levels, heights as specified, excluding reinforcement.. (No extra will be paid in variation of cement level, minimum cement level will be as per IS 456 (rates for centering, shuttering, formwork staging scaffolding for considering up to 4.50m height) (C) RCC Lintel up to all Floor	<i>Separate sheet attached.</i>
Item No.	13	Providing TMT Bar FE 500D reinforcement for R.C.C. wor including bending, binding and placing in position complete upto floor all level	<i>Separate sheet attached.</i>
Item No.	14	Applying general insecticide pest control treatment to floors,cupboards etc including labour materials etc. complete. Using Imidacloprid 30.5 SCas Per IS 6313 part -II((0.075% concentration by mass) is recommended 10.5ml chemical diluted with 5 liters of water application 0.5 litre chemical /Sq.m of surface is recommended as per I.S.	<i>Separate sheet attached.</i>
Item No.	15	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 1:5. (1-Cement : 5 -fine sand)(B) Conventional	<i>Separate sheet attached.</i>
Item No.	16	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in Super Structure in Cement Mortar 1:5. (1-Cement : 5 -fine sand)(B) Conventional - all Floor	<i>Separate sheet attached.</i>
Item No.	17	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 foundation and plinth (B) Conventional All Floor	<i>Separate sheet attached.</i>
Item No.	18	10mm thick cement plaster in single coat on fair side of brick / concrete wall for interior plastering upto floor two level finished even and smooth in C M 1:4 (1 cement 4 coarse sand) including floating coat of neat cement including finishing etc complete. all Floor	<i>Separate sheet attached.</i>
Item No.	19	15 mm thick cement plaster in single coat on fair side of brick / concrete wall for interior plastering upto floor two level finished even and smooth in C M 1:4 (1 cement 4 coarse sand) including floating coat of neat cement including finishing etc complete. all Floor	<i>Separate sheet attached.</i>
Item No.	20	20 mm. thick sand face cement plaster Gutkha finish on walls up to any height above ground level consisting of 12 mm. thick backing coating of C.M. 1:3 (1 cement: 3 sand) and 8 mm. thick finishing coat in C.M. 1:1 (1 cement:1 sand) etc. complete.	<i>Separate sheet attached.</i>
Item No.	21	Providing and fixing Chicken mesh jali (20 gauge) at the junction of 2 different surfaces of different material component at the time of plastering to prevent cracking in plaster surface as and where directed at all floors with all leads and lifts etc.complete.	<i>Separate sheet attached.</i>
Item No.	22	Providing cement vata (10 cm x 10 cm size) quartar round in cement mortar 1:1 including neat cement finishing watering etc. complete. For all floor	<i>Separate sheet attached.</i>
Item No.	23	Providing throating or plaster drip and moulding to rcc chhajja for all floor.	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	24	Providing and applying two coats of Birla or Asian 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.	<i>Separate sheet attached.</i>
Item No.	25	Providing and applying Wall painting (three coats) with plastic emulsion paint of approved brand and manufacture on under coated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand paperd smooth on new work to give an even shade.for all height	<i>Separate sheet attached.</i>
Item No.	26	Finishing wall with weather proof low velocity ultima 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 for all height	<i>Separate sheet attached.</i>
Item No.	27	Painting two coats (Including priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter.	<i>Separate sheet attached.</i>
Item No.	28	Providing and fixing flush door both sides laminated and using shutter fabricated from 35 mm thick solid core malemine faced three layered pre laminated flat pressed wood based exterior grade bonded BWP/BWR synthetic resin having stamped IS 12823 grade I type II including three coats of lacquer polishing to exposed wooden surfaces and Stainless steel decorative type designs fixtures/ fastening etc.including I.T.W. triangular batten patti of size 30m.m.x 30m.m. etc. as per architectural detailed drawing and as directed by engineer in charge.	<i>Separate sheet attached.</i>
Item No.	29	Providing & Fixing UPVC Single Door Partly Glazed /Fully Glazed of Fenesta,LG Hausys,Kömmerling Veka as per Instruction of Architect .Doorwith Frame section 58mmx60mm and door shutter of section size 102mmx60mm with Glass 5mm Thick including lock and aldop with all necessary fittings and installation and filling gaps with Silicon etc complete	<i>Separate sheet attached.</i>
Item No.	30	Providing & Fixing UPVC Double DoorPartly Glazed /Fully Glazed of Fenesta,LG Hausys,Kömmerling Veka as per Instruction of Architect .Door with Frame section 58mmx60mm and door shutter of section size 102mmx60mm with Glass 5mm Thick including lock and aldop with all necessary fittings and installation and filling gaps with Silicon etc complete	<i>Separate sheet attached.</i>
Item No.	31	Providing & Fixing UPVC PartitionPartly Glazed /Fully Glazed of Fenesta,LG Hausys,Kömmerling Veka as per Instruction of Architect .Partition with Frame section 58mmx60mm including with Glass 5mm Thick fittings and installation and filling gaps with Silicon etc complete	<i>Separate sheet attached.</i>
Item No.	32	Providing and fixing factory-made UPVC combination sliding window of Fenesta,LG Hausys,Kömmerling make,System SY09 – Luxury Slider Combination, Design Code 615, overall size 1050 mm (W) × 2800 mm (H), comprising two fixed panels and two sliding shutters (configuration (DFix.DFix)/(XiX)).The window frame shall be made of uPVC multi-chamber sections having dimensions and shutter members shall consist of top & bottom rails of as per manufacturer's specification.Each openable panel shall be fitted with 6 mm thick toughened glass (SG TGH) and all fixed panels shall have glass secured in the same profile system with EPDM gaskets and weather seals. All sections to have Foil 2S Walnut finish on both sides, with necessary hardware including handles, locks, rollers, and interlocking profiles. The installation shall be complete in all respects, ensuring perfect alignment, smooth operation, and weather resistance.	<i>Separate sheet attached.</i>

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1		2	3
Item No.	33	Providing & Fixing UPVC Ventilation with Movable Louvers of Fenesta, LG Hausys, Kömmerling Veka as per Instruction of Architect. Ventilation with Frame section 55mmx60mm including with Glass 5mm Thick fittings and installation and filling gaps with Silicon etc complete	<i>Separate sheet attached.</i>
Item No.	34	Providing and fixing M.S. plain grills of required pattern with M.S. flats at required spacings & frame around, square or round bars with round headed bolts and nuts or by screws Etc Complete	<i>Separate sheet attached.</i>
Item No.	35	Providing and Fixing heavy duty S.S. Door Closer as directed by Engineer In charge.	<i>Separate sheet attached.</i>
Item No.	36	Providing and laying 16-18 mm thick polished granite stone machine cut in single piece (Max. available) in sill and jambs of door, window, ventilation & lift wall cladding, staircase risers & treads, skirting laid over 10 mm thick cement Plaster and Jointed with only Tile Adhesive chemical (Roff, K2, Laticrete, Mapisa, pidilite C2TE) with matching pigment incl. rubbing and polishing, half rounding edge and incl. fixing of hilly fastener at every 1/3 span of sill as required size etc. complete colour and shed as approved by architect engineer in charge.	<i>Separate sheet attached.</i>
Item No.	37	Providing and laying Granite slab (18 mm thick) one side polished flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) or L.M 1:1.5 laid and jointed with grey cement slurry including rubbing and polishing complete.	<i>Separate sheet attached.</i>
Item No.	38	P & L 24" x 48" 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 finished with flush pointing & cleaning the surface etc. complete for light shade/ Dark Shade and providing and filling epoxy based grout in grooves of size up to 6mm x 6mm in flooring or dado with PVC spacer of BAL Endura / Kerakoll / BASF or equivalent as per approved make of approved shade and color. Rate shall be inclusive of protecting the edges, cleaning the grooves before filling and protecting tile upto satisfaction of EIC. Rate shall be inclusive of filling groove through epoxy based filler with PVC spacer as per manufacturer specification. Item shall be paid in theoretical consumption on site.	<i>Separate sheet attached.</i>
Item No.	39	Providing and laying 24" x 24" Vitrified double charge 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement : 6 coarse sand) or L.M 1:1.5 laid on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with colour cement slurry including finished with flush pointing & cleaning the surface etc. Pattern Colour and shade as approved by architect. etc completed & Fitting Tiles with Spacer 4mm/5mm thick and filling Groove with approved epoxy sealant and Hardner Resin as directed by A.I.C. complete For Antiskid	<i>Separate sheet attached.</i>
Item No.	40	Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement.	<i>Separate sheet attached.</i>
Item No.	41	Providing and laying coloured glazed tiles of the size 300 mm x 450 mm x 8 mm in skirting, risers of steps and dado on 10 mm. thick cement plaster 1:3 (1 cement: 3 coarse sand) & jointed with white cement slurry. & Fitting Tiles with Spacer 4mm/5mm thick and filling Groove with approved epoxy sealant and Hardner Resin as directed by A.I.C.	<i>Separate sheet attached.</i>
Item No.	42	Providing and laying 19mm x 65mm round, 'D' edge and polished granite pencil patti on top, with cement paste and including backing coat in C.M. 1:4. All joints filled with colour / epoxy grout and wiped to give sharp joints with flush pointing and washed clean with acid etc.	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	43	Providing and fixing Sand which type Granite platform including supplying and fixing granite stone 18 mm thick mirror polished 1st quality Granite stones in top and side position and vertical strip at front over 25 mm thick polished kotah stone platform fixing in top and sides and intermediates supports fixing with cement mortar and adhesive and finishing including cutting for fixing of sink any size (as directed by engineer incharge) at required position etc complete.	<i>Separate sheet attached.</i>
Item No.	44	Providing and fixing single layer waterproof gypsum board 12.5 mm thick of the make Newgood Group Co. Ltd. or equivalent & Newgood Group Co. Ltd. company sections using waterproof board of size 1220 mm x 1830 mm x 8.0 mm suspended by G.I suapender of size 25 mm x 3 mm with intermediate channel of size 18 mm x 40 mm x 0.80 mm at 1220 mm center to center ceiling section of size 40 mm x 35 mm x 0.55 mm at 457 mm center to center and perimetre chanel A of size 20 mm x 27 mm x 30 mm x 0.50 mm at edges & drops including paper tap sand sofit cleat, anchor fastener, scotch bolt connecting cleat joining compound top coat on ceiling including making necessary opening for light fitting, diffuser etc. complete as per detail drawing as directed.	<i>Separate sheet attached.</i>
Item No.	45	Providing and fixing in position S.S. daso by providing top 50 mm dia stain less steel pipe rail with starting and end point vertical post of 50 mm dia with wall/column including bending welding and fixing for staircase and balcony as directed. (testing is required of s.s 304) for all floor	<i>Separate sheet attached.</i>
Item No.	46	Providing and fixing 3 mm thick PVC sheets as Signage and Display of health signs/information of required size having retro reflective letters/design as per requirement, fixing the same through approved adhesive etc. complete work shall carried out as per instruction of Engineer-in-charge (45 x 15 cms.)	<i>Separate sheet attached.</i>
Item No.	47	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 connected to common rafters and the like.	<i>Separate sheet attached.</i>
Item No.	48	Providing corrugated G.I. sheet of class-3 roofing fixed with galvanized iron J or L Hooks, Bolts and nuts 8mm diameter with bitumen and G.I. limpet washer or G.I. limpet washer. filled with white lead complete excluding the cost of purlins, Rafters and Trusses.(1) 0.80 mm thick sheet.	<i>Separate sheet attached.</i>
Item No.	49	Providing and fixing (600 X 450 X 150 mm) size vitreous china laboratory sink/Kitchen Sink with CI or MS brackets painted white including cutting holes in wall and making good the same 40 mm dia CP waste couplin rails etc. complete.	<i>Separate sheet attached.</i>
Item No.	50	Fabricating, supplying and fixing in position GRAB BAR 18" (450MM) for handicapped toilet with brush finish and (S.S.304) grade as per Indian Standard and detailed drawing including grinding, cleaning and filling the welded spots with S.S. finish.	<i>Separate sheet attached.</i>
Item No.	51	Providing laying and jointing in true line and level 15 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	52	Providing laying and jointing in true line and level 25 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	<i>Separate sheet attached.</i>
Item No.	53	Providing laying and jointing in true line and level 40 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	<i>Separate sheet attached.</i>
Item No.	54	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.[A] 15 mm.	<i>Separate sheet attached.</i>
Item No.	55	Providing and fixing Gun metal check or non-return fullway wheel valve.(C)25mm dia.	<i>Separate sheet attached.</i>
Item No.	56	Providing and fixing Gun metal check or non-return fullway wheel valve.(E) 40mm dia.	<i>Separate sheet attached.</i>
Item No.	57	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I screed down or hinged grating including the cost of cutting and making good the walls.	<i>Separate sheet attached.</i>
Item No.	58	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 plug with C.P. brass screws and washers.	<i>Separate sheet attached.</i>
Item No.	59	Providing and fixing wash down wall hung /Floor Mount water closet (European type) of jaquar or equivalent with integral 'P' trap jointed within C.I pipe in C:M 1:1 including matching seat cover, chair bracket, Concealed metropole of jaquar or equivalent, 2 way bibcock of jaquar or equivalent, health faucet of jaquar or equivalent with 1 m extension pipe, toilet paper holder of jaquar or equivalent with all accessories etc. complete.	<i>Separate sheet attached.</i>
Item No.	60	Providing & Fixing white or coloured glazed China Veterinary China Orissa Pattern water closet squatting pan size 580 mm. x 440 mm. including providing and fixing veterinary china 100 mm. size S or P trap including jointing the trap with pan and soil pipe in C.M. 1:1 including all fitting and fixtures.	<i>Separate sheet attached.</i>
Item No.	61	Providing and Fixing autoclosing concealed urinal flush valve (jaquar PRS-073) with wall flange etc. complete. As directed by EIC.	<i>Separate sheet attached.</i>
Item No.	62	Providing & Fixing C.P Brass waste for washbasin or sink (a) 32 mm Dia	<i>Separate sheet attached.</i>
Item No.	63	Providing & Fixing Surgical Bib cock of FLR-5043N of jaquar or Equivalent as directed and complete.	<i>Separate sheet attached.</i>
Item No.	64	Providing and fixing screw down bib taps of following size: (B) Brass chromium plated screw down bib tap (I) 15 mm dia.	<i>Separate sheet attached.</i>
Item No.	65	Providing and fixing Veterinary China flat back wash basin with single hole for pillar trap with CI or MS brackets painted with including cutting holes and making good the same including all necessary fittings in white colour.including pillar trap 15mm Dia & Waste Pipe 32mm Dia	<i>Separate sheet attached.</i>
Item No.	66	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm ² working pressure polythene pipes of the following outside Dia. Low density, complete with special flange compression type fittings, wall clip etc. including making good the wall ceiling and floor.(G)75 mm	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	67	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(G)110 mm	<i>Separate sheet attached.</i>
Item No.	68	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with briocks having croshing strength not less than 35Kg. Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement:2- coarse sand:4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line	<i>Separate sheet attached.</i>
Item No.	69	Providing, laying and jointing in true line and level 110 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diametre x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	<i>Separate sheet attached.</i>
Item No.	70	Providing, laying and jointing in true line and level 160 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diametre x 210 mm length x 196 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	<i>Separate sheet attached.</i>
Item No.	71	Supplying and Installing 3 layer PVC water tank (ISI) of required capacity each with all necessary fittings and connection etc. complete on terrace.	<i>Separate sheet attached.</i>
Item No.	72	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.	<i>Separate sheet attached.</i>
Item No.	73	Construction Septick tank of the required dimension as shown and mentioned in the drawing ,(inside 3.70 X 1.00 X1.5 Mtr Deep) including providing and laying 0.15 mtr thick PCC in 1:4:8 (1 Cement: 4 Coarse Sand: 8 Hand Broken stone aggregates 40mm nominal size.) and 0.10 mtr thick plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded seone agg. 20mm nominal size) at Bottom, brick masonry Wall 23 cm thick and intermediate partition , in 11.5 cm thick wall in CM 1:4 including 12 cms thick RCC slabs in CC 1:2:4 at top ,and 15 mm thick cement plaster in CM 1:3 etc complete, septick tank as per detailed drawing.	<i>Separate sheet attached.</i>
Item No.	74	Providing and Placing bed side medical Curtain with S.s. Rail with SS Ring etc complete rate incl. fabric fitings & accessories of approved make curtain fire retardent	<i>Separate sheet attached.</i>

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1		2	3
		Electrical Work	
Item No.	75	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	76	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	77	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	78	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	79	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.	Specification as per Electric work Booklet Page 1 to 49
Item No.	80	(9) 16 Amp. SP one way switch Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	81	(10) 6/16Amp. Universal socket Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	82	(4) TV Co-axial Socket outlet Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	83	(7) Blank Plate Single Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	84	(8) Computer RJ-45 Cat-III	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	85	(19) Modular Indicating Call Bell Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	86	Conduits & Pipes 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	Specification as per Electric work Booklet Page 1 to 49
Item No.	87	b) 25 mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	88	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (2) 20 mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	89	(3) 25 mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	90	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	91	Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free and flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc..All necessary accessories and measuring of following sizes (3) 50 mm x 50 mm trunking	Specification as per Electric work Booklet Page 1 to 49
Item No.	92	(1) 75 mm x 50 mm trunking	Specification as per Electric work Booklet Page 1 to 49
Item No.	93	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	94	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	95	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)	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	96	Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. a) RG -6	Specification as per Electric work Booklet Page 1 to 49
Item No.	97	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories cat iii	Specification as per Electric work Booklet Page 1 to 49
Item No.	98	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	Specification as per Electric work Booklet Page 1 to 49
Item No.	99	Providing & erecting main Distribution (MDF) indoor type, back mounted frame (a) Suitable for 10 pair	Specification as per Electric work Booklet Page 1 to 49
Item No.	100	ARMOURED ALLUMINIUM CABLES. Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (E) 3 1/2 core 95 Sq. mm (50 Sq. mm 1/2 core)	Specification as per Electric work Booklet Page 1 to 49
Item No.	101	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 25 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	102	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) 4 Core 10 Sq.mm.	Specification as per Electric work Booklet Page 1 to 49
Item No.	103	(B) 4 core 6 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	104	Making trench in soft soil of suitable width of 90 cms deep for laying cable or locating the fault all over the run and back filling the same and making the surface as a normal ground.	Specification as per Electric work Booklet Page 1 to 49
Item No.	105	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (D)120 mm outer dia.	Specification as per Electric work Booklet Page 1 to 49
Item No.	106	CABLE GLANDS. Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 2 to 4 core 10 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	107	(B) 2 to 4 core 6 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	108	(E) 2 to 4 core 25 Sq. mm	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	109	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (D) 3 & 1/2 core 95 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	110	CABLE LUGS. Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	111	(A) 1.5/ 2.5/4/6 Sq.mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	112	(C) 16/25 Sq.mm.	Specification as per Electric work Booklet Page 1 to 49
Item No.	113	(F) 95 Sq.mm.	Specification as per Electric work Booklet Page 1 to 49
Item No.	114	MINIATURE CIRCUIT BREAKERS. 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-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	115	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	116	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	117	Providing & erecting 415V MCB Four Pole Switch for Lighting Load (B curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	118	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) (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (ii)8 way	Specification as per Electric work Booklet Page 1 to 49
Item No.	119	EARTH LEAKAGE CIRCUIT BREAKERS. 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	Specification as per Electric work Booklet Page 1 to 49
Item No.	120	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.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	121	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	122	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A. with variable Thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing ICS=100% of ICU only Cat III	Specification as per Electric work Booklet Page 1 to 49
Item No.	123	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. housing. ICS=100% of ICU only Cat III	Specification as per Electric work Booklet Page 1 to 49
Item No.	124	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports / insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. capacity	Specification as per Electric work Booklet Page 1 to 49
Item No.	125	Supply of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity (B) 100 A / 125 A	Specification as per Electric work Booklet Page 1 to 49
Item No.	126	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection 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 supporting angles, flats 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, with suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket 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	Specification as per Electric work Booklet Page 1 to 49
Item No.	127	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	Specification as per Electric work Booklet Page 1 to 49
Item No.	128	providng and erecting Suitable set of CTS for 100A Energy Meter	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	129	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	Specification as per Electric work Booklet Page 1 to 49
Item No.	130	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	Specification as per Electric work Booklet Page 1 to 49
Item No.	131	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	Specification as per Electric work Booklet Page 1 to 49
Item No.	132	Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(f) One wire 10.00 sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	133	(g) One wire 16.00 sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	134	(h) One wire 25.00 sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	135	CEILING FANS AND ACCESSORIS. Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	Specification as per Electric work Booklet Page 1 to 49
Item No.	136	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	Specification as per Electric work Booklet Page 1 to 49
Item No.	137	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM Cat II	Specification as per Electric work Booklet Page 1 to 49
Item No.	138	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 polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %,CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/ non-integral driver (iv) 22-24 Watts, Surge - 4KV,IP-20, 4 feet Cat-III	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	139	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 polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %,CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt, LED driver efficiency > 85 % CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates)Square/ Circular Surface/Recessed Mounted Downlight/Hanging with provision for spring loaded mounting clips complete.(iii) 16-20 watts, Surge-2 KV, Surge-4 KV Cat III	Specification as per Electric work Booklet Page 1 to 49
Item No.	140	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 polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt, LED driver efficiency > 85 %CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates)(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	Specification as per Electric work Booklet Page 1 to 49
Item No.	141	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. (a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.	Specification as per Electric work Booklet Page 1 to 49
Item No.	142	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	Specification as per Electric work Booklet Page 1 to 49
Item No.	143	Providing & erecting water cooler having storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15°C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	144	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [C] 50 Ltr / Hr with 150 psi 2 nos booster pump	Specification as per Electric work Booklet Page 1 to 49
Item No.	145	Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E), DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box.(B) 250mm x 200mm x 100mm [deep]	Specification as per Electric work Booklet Page 1 to 49
Item No.	146	Supplying and erecting B class Galvanized iron pipe having smooth finished bore of the pipe on both ends erected nuts and bolts along the pole / wall shaping the pipe as per site requirement. Pipe dia as following.(B) 32 mm dia	Specification as per Electric work Booklet Page 1 to 49
Item No.	147	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 1Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed 120 to 300 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 %.CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/ BridgeLux (U.S.A.) make LED used for luminaire. (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 -4KV,Light must have 440VAC line supply protection. It should withstand 48 hours for 440VAC line supply (v) 120 - 159 watts Cat III	Specification as per Electric work Booklet Page 1 to 49
Item No.	148	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 1Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed 120 to 300 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 %.CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/ BridgeLux (U.S.A.) make LED used for luminaire. (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) 48 - 59 Watts CAT III	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	149	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.	Specification as per Electric work Booklet Page 1 to 49
Item No.	150	Supply, Installation, Testing and Comissioning of 4MP Fixed Lens Dome Type Camera, H.265 4MP IR Vandal Proof Dome N/W Camera, 2.8mm/3.6mm, 30M IR, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 1 / 2.7" CMOS, 2560 × 1440, 0.01 Lux, F1.2, AGC ON; Defog, True day/night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Cyber Security, Basic intelligent video analytics, NDAA Compliance, UL, CE, FCC Certified (Including Five year free maintenance with guarantee)	Specification as per Electric work Booklet Page 1 to 49
Item No.	151	Supply, Installation, Testing and Comissioning of 4MP Fixed Lens Bullet Type Camera, H.265 4MP IR Bullet N/W Camera, 3.6mm / 6mm, 50M, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 4MP resolution (2560 × 1440), True day/night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Cyber Security Basic intelligent video analytics, NDAA Compliance, UL, CE, FCC Certified (Including Five year free maintenance with guarantee)	Specification as per Electric work Booklet Page 1 to 49
Item No.	152	Supply, Installation, Testing and Comissioning of 16 Channel Network Video Recorder (NVR), 1, RJ-45 10/100/1000 Mbps self- adaptive Ethernet interface, Supports H.265+/ H.265/H.264/H.264+ decoding formats, Embedded NVR, 2 HDD Bays, up to 6TB capacity each disk, HDMI, VGA output, 1-ch @ 8 MP / 4- ch @ 1080p, Incoming bandwidth 160Mbps, Outgoing 80 Mbps, CE FCC, BIS, Operating Temp -10 deg to 55 deg C, 2xUSB 2.0 1USB and serial Interface (Including Five year free maintenance with guarantee)	Specification as per Electric work Booklet Page 1 to 49
Item No.	153	Supply Installation Testing and commissioning of 8 PORT POE SWITCH with required all necessary accessories to complete th job. MAKE:- Dahua	Specification as per Electric work Booklet Page 1 to 49
Item No.	154	Supply Installation Testing and commissioning of 10 TB HARD DISK with min 30 days back up. MAKE:- SEAGATE	Specification as per Electric work Booklet Page 1 to 49
Item No.	155	Supply, installation, testing and commissioning of 9 U Rack including necessary power mounting and fan arrangements for mounting CCTV equipments	Specification as per Electric work Booklet Page 1 to 49
Item No.	156	Supply, Installation, testing and commissioning of 49 inch professional display/TV for 16X7 AVSI and digital signage application with full HD resolution /HDMI /DVI /VGA /RS232 /USB /RJ45 /Wifi ready/Built-in speakers, Inbuilt media player (refer to annexure - 1 for detailed specifications)	Specification as per Electric work Booklet Page 1 to 49
Item No.	157	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. (2)For ISEER Range (KWH/KWH)(4.0 to 4.49) (b) for 1.5 ton capacity	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	158	Supplying and erecting insulated pair of soft copper tubing open or concealed including power and control cable,necessary PVC drain pipes for Split AC machine up to 4 TR capacity	Specification as per Electric work Booklet Page 1 to 49
Item No.	159	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..(C) 3 KVA with 1Hr Backup	Specification as per Electric work Booklet Page 1 to 49
Item No.	160	Supplying and erecting approved make Instantaneous type water heater with 3ltr.capacity rust free container housed in ABS plastic body insulated with glass wool / puff insulation and 3 Kw heating elements,adjustable thermostat 300 C to 850 C with set to operate at 850 C (+ /-60 C) auto reset indication lamps, thermal cut-out, safety valve fusible plug etc. Cat III	Specification as per Electric work Booklet Page 1 to 49
Item No.	161	Supplying, Erecting, Testing & Commissioning the passenger / stretcher lift having following main features:	Specification as per Electric work Booklet Page 1 to 49
Item No.	162	4/5/6 Passengers, Ground plus 2 upper floors with Rated Speed of 1.0 m/sec. (C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.	Specification as per Electric work Booklet Page 1 to 49
Item No.	163	(a) General Features & Special Features of the all lift items shall be taken as below. (b) for Handicap Lifts, Minimum 10 Passengers Lift Capacity shall be considered.same is to be informed to architect /civil authority to keep necessary size of lift well. (c) The lifts of 15/ 16 and above passenger capacity shall be taken for Hospital Lifts; Where in Description " Stretcher Lifts" shall be mentioned. (d) The Rates of the following items are for the lift of Machine room less. For Machine room Lifts, rate for Rs. 1,50,000/- shall be deducted in Total Cost for the Lifts from 4 to 13 Passenger Lift. Rs. 2,00,000/- shall be deducted in Total Cost for the Lifts 15 and above passenger capacity as extra cost. (e) Add Rs. 80,000/- for the DUPLEX control for the lifts up to 10 floors and add Rs. 10,000/- for additional each floor above 10 floors. (A) GENERAL DESCRIPTION OF LIFTS. [1] GEAR LESS LIFT DRIVE (MRL) comprising of High Starting torque Lift 3 phase 440 V A. C. Permanent Magnet Synchronous motor of proper rating with high efficiency shall be used.[2] Micro processor based / PLC, ACVVVF, vector control drive with encoder feedback closed loop system shall be used for lift car and door operation which shall be full collective selective operation hall call demand response, UP/DOWN hall stops, Main, Up/ Down Contactor with overload and phase reversal relay and safety controls.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	164	<p>[3] Car with M S platform with bracings of adequate size and to sustain the impact load cabin + passenger with safety factor of fire for steel and side panels of Stainless steel of sheet of grade 304 duty. Car ceiling will be S.S. finishes with aesthetic appearance with LED ceiling lights. Car flooring shall be of s/s 304 chaker plate design sugested of engineer in charge. of engineer in charge. Car doors shall be of stainless steel grade 304, hairline finish with centre opening / telescopic automatic doors. Car panel will also be S.S. 304 finished with emergency stop device, mechanical door safety device, facility of auto/ attended mode. All car panel buttons and all floor switches must be with brail language as per lift act. [4] All landing doors must be fire rated for 2 hour shall be fully automatic centre opening/ telescopic opening made of hairline finish steel grade of 304 with key holes and infrared curtains with Unlocking facility from outside</p> <p>[5] Appropriate battery operated emergency light in the car along with alarm switch shall be provided. Also, Emergency Light & Fan should start immediately without any Time Delay as soon as power fails.</p> <p>[6] Digital scrolling indicator system for up-down arrow along with floor position indicator shall be provided inside the car and at all floors.</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	165	<p>[7] Full height infra red curtain with multiple cross / crossing light beams shall be provided.</p> <p>[8] Automatic Rescue Device (ARD) shall be provided accordingly of passenger capacity with Manual Rescue Operation (Manual Cranking Facility).</p> <p>[9] Audio visual indication in the lift car showing over loading shall be provided such that doors kept open till excess load is removed.</p> <p>[10] Spring buffers/PU Buffers shall be provided.</p> <p>[11] Car fan as per passenger capacity with automatic sleep timer shall be provided.</p> <p>[12] Voice annunciator with suitable music shall be provided in lift car.</p> <p>[13] Self diagnostics system for operational and safety parameters shall be provided in control panel.</p> <p>[14] Mechanical over speed governor with governor calibration as per actual site parameters and submission of calibration certificate submission, door key holes in the floor doors, fireman switch shall be provided.</p> <p>[15] Lift machine hoisting arrangement in the lift machine room and monkey ladder for lift pit should be provided by the lift agency, along with the other steel structure works, foundations for the machine etc...</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	166	<p>[16] In the hoist way fascia plate shall be provided without any extra cost, where ever required as / if directed by engineer in charge.</p> <p>[17] Permanent wiring with necessary safety devices like RCCB in all circuit, Over Voltage Under Voltage protection and THD eliminator in circuit for lift machine room and lift well with proper numbers of light points, with fixtures, exhaust fan and plug points shall be provided by the agency. Only 3 phase Power Supply shall be made available by department in lift machine room. Necessary Earthing as per Lift Act/Rules shall be arranged by Lift Agency.</p> <p>[18] Any civil/ electrical works for additional and alteration in lift shaft and machine room related to erection of lift shall be made by lift agency without any extra cost. (granite/marble fixing around all landing door openings are not in lift agency's scope.)</p> <p>[19] Agency has to provide all working drawings and documents and liaison services for obtaining all necessary permission from lift inspector and other authorities.</p> <p>[20] acrylic transparent licence/display A4 size holder in lift car</p>	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	167	<p>[20A] As per statutory requirement of Govt. Of Gujarat lift & escalator act 2000, lift agency has to provide</p> <ol style="list-style-type: none"> 1. Car top safety barricade 2. Push & talk communication system. 3. Fireman's switch operation at Ground Floor. 4. carrying out third party lift inspection during/after lift erection and provide report by third party authorized by concern licensing authority 5. agency has to provide third party insurance upto completion of free maintenance period and submit the document for the same. <p>[21] Car Panel Operating Buttons with floor position indicator/buttons must be of Auto Glow type clearly visible when view from inside cabin.</p> <p>[22] For Physically Handicapped person Full Length Handrails of hairline finish steel grade of 304 should be provided at appropriate height on the Rear & Side Wall Panels in Lift Car. [23] With Necessary KVA rating voltage controlled Stabilizer suitable for your controller, drive and all equipments of lift.</p> <p>[24] Necessary rating of DP Elcb and FP Elcb required for lift is in scope of work which rating is suggested by CEICED Department (electrical Inspector)</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	168	<p>(B) SPECIAL FEATURES DESCRIPTION OF LIFTS for PREMIUM category</p> <ol style="list-style-type: none"> 1. Advanced control system dual 64 bit embedded microprocessor with CANBUS Serial Communication mode including Regenerative power efficient operation, on site programming facility, Anti nuisance, Pte-opening, BMS/RMS with necessary online real time monitoring system having necessary connectivity for remote monitoring & other suitable supporting hardware & software devices to fulfil the purpose. 2. Floor Indication LCD Display with call registration & brail mark with arrival gong and hall lantern & TFT Screen in the car with MP3 Voice Announcer. 3. CAR Panel should be Scratch resistive SS Moonrock finish / Hair Line / Honeycomb for car and all Doors, All landing doors must have fire rating up to 2 hours and car door must have multi-level crisscross beam door protection. 4. To & fro communication system & wiring (i.e. car , control room & guard room) and Each elevator are equipped with remote monitoring system. agency has to provide mobile app and user id and password for monitoring 	Specification as per Electric work Booklet Page 1 to 49
Item No.	#REF!	#REF!	Specification as per Electric work Booklet Page 1 to 49
Item No.	#REF!	#REF!	Specification as per Electric work Booklet Page 1 to 49
Item No.	0	Fire Safety Works	Specification as per Electric work Booklet Page 1 to 49
Item No.	169	<p>Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required</p> <p>100 mm 80 mm dia</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	170	65mm dia	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	171	25mm dia	Specification as per Electric work Booklet Page 1 to 49
Item No.	172	15mm dia	Specification as per Electric work Booklet Page 1 to 49
Item No.	173	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	Specification as per Electric work Booklet Page 1 to 49
Item No.	174	MS Structural supprotos fabircated with MS / GI Angles, tubes, pipes etc.as required for the panels, battery & fuel tank etc.	Specification as per Electric work Booklet Page 1 to 49
Item No.	175	Apply of Painting for aboveground lines with two coats of enamel paint (As per the IS:5,Sr No: 80,ISC no-537) over one coats of Red oxide primer for above ground pipe line network.	Specification as per Electric work Booklet Page 1 to 49
Item No.	176	Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete.[A] For 4.5 Kg Capacity	Specification as per Electric work Booklet Page 1 to 49
Item No.	177	Supply & erection of ISI marked portable fire extinguishers, wall mounted type, wall brackets complete in all respect as per standard item with all accessories, delivery hose & nozzle wherever required, including fixing on walls as per the directions of Engineer-in-charge. Water CO2 nozzle type. 9 Lt.capacity	Specification as per Electric work Booklet Page 1 to 49
Item No.	178	Supply & erection of ISI marked portable fire extinguishers, wall mounted type, wall brackets complete in all respect as per standard item with all accessories, delivery hose & nozzle wherever required, including fixing on walls as per the directions of Engineer-in-charge. ABC dry powder stored pressure type 6 Kg. capacity (IS:15683)	Specification as per Electric work Booklet Page 1 to 49
Item No.	179	Fire exit signs of standard size (Size 450 x 200 x 84 mm or nearest)(photoluminous type.(glowing in dark type)Providing and fixing portable fire extinguishers of approved make ISI marked of following Capacity at the places shown on Drawing & mentioned in CFO letter	Specification as per Electric work Booklet Page 1 to 49
Item No.	180	Providing and fixing 3mm thick PVC sheets as signage and display of health signs/information of required size having retro reflective letters/design as per requirement, fixing the same through approved adhesive etc. complete, work shall be carried out as per instruction of engineer-in-charge. (Approved make PVC foamed sheets only)(45 x 15 cms)	Specification as per Electric work Booklet Page 1 to 49
Item No.	181	Providing, fixing, testing and commissioning of Auto Glow Signages patta For Wall and Flooring, (2" Wide)	Specification as per Electric work Booklet Page 1 to 49
Item No.	0	Fire Ele. Work	Specification as per Electric work Booklet Page 1 to 49
Item No.	182	SITC of Analogue Addressable Multi- Sensor which is fully compatible with Analogue Addressable Protocol,having removable high performance chamber with Twin fire LED's allow 360 degree viewing, User selectable sensitivity modes 1% to 4.5% obs/m, Incorporate Optical and dual Heat elements, lock mechanism (sensor to base), Electronically addressed, Pulsing/non- pulsing controlled from panel.	Specification as per Electric work Booklet Page 1 to 49
Item No.	183	supply and installation of 8" x 8 " MS Junction Box.	Specification as per Electric work Booklet Page 1 to 49
Item No.	184	Supply, installation, testing and commissioning of 12V 7AH batteries.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	185	SITC of Analogue Addressable Manual Call Point with Integral Short Circuit Isolator, Analogue Addressable Protocol having, Bi-coloured status LED (red for alarm, amber for (short- circuit), Non-frangible element fitted as standard (conforms to EN54), pulsing/non-pulsing can selectable via panel, Electronically addressed.	Specification as per Electric work Booklet Page 1 to 49
Item No.	186	Providing & Erection cable for fire alarm system 2 Core X 1.5 sqmm FRLS armoured copper Cable	Specification as per Electric work Booklet Page 1 to 49
Item No.	187	Supply, installation, testing and commissioning of Intelligent Integrated Loopbased Sounder with Beacon - compatible with existing panel.	Specification as per Electric work Booklet Page 1 to 49
Item No.	188	Loop Mounted Isolator - compatible with existing panel	Specification as per Electric work Booklet Page 1 to 49
Item No.	189	Supply, Installation, Testing and Commissioning of Addressable Monitor module compatible with existing panel.	Specification as per Electric work Booklet Page 1 to 49
Item No.	190	Furniture & interior Works	Specification as per Electric work Booklet Page 1 to 49
Item No.	191	Providing and Supplying Motorized bed. with 7 Function Bed, 6 embedded control panel + 1 ACT panel Intensive care unit bed with back rest up down, knee rest up-down, Trendelenburg and reverse Trendelenburg, Hi-low position, Lateral Tilt controlled through electro mechanical actuators operated using soft touch control panel.The embedded control panels are placed: 4 no's at the Head boards and 2 no's at the Leg boards. Nurse embedded panel should have features like backrest, leg-rest, High-low, TR/ATR, Auto CPR, Single button Cardiac chair position, Shock position, auto-contour and Locking features.Patient embedded panel should have features like backrest, leg-rest, High-low.. The Digital Attendant Control Touch Panel mounted on leg-board can be used to operate functions such as backrest, leg-rest, High-low, TR/ATR, Auto CPR, Single button Cardiac chair position, Shock position, Lateral Tilt, auto-contour , weight measurement, Under bed light, Out of bed alarm and Locking features.The lateral tilt feature can only be operated when the sideboards are up / engaged to prevent patient fall, when the lateral tilt orientation is shifting from right to left/left to right there should be a pause of 4 seconds and beep sound as a safety feature. Base frame is made of 30mmx 60mm 2mm thick MS CRCA rectangular tube with the bed frame of 50x 25mm and 40 x20mm, 2mm thick MS CRCA rectangular tube.. The embedded control panel ICCU bed has four section lying surface with ABS vacuum formed with antimicrobial property which should be easily removable, washable to maintain hygiene with integrated mattress retainer.The bed has four numbers of PP moulded side boards with embedded control panels (2 no's for Patient and 4 no's for Attendant) and drop-down mechanism, completely collapsible , the side boards should be air mattress comaptible and height of the side boards should be more than 400 mm.There are 4 nos of bumpers given at the four corners made up of TPE (thermo plastic elastomer) with excellent shock absorbing property.There are two nos of CPR lever, one at either side of the bed for quick release of the back rest during emergencis. In order to achieve the Deep Vein Thrombosis (DVT) position, the lower leg rest portion of the bed frame has the Provision of a MS zinc plated ratchet. The ratchet is adjustable in five different positions.Technical Details:- Overall Length: <2200mm· Overall Length (with extended): <2380mm·	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	192	<p>Providing and Supplying Fowler bed should have Overall dimension: (L) 2138 x (W) 908 x (H) 559mm Functions : Two function bed with adjustable backrest 70deg and upper leg rest 24deg Head board and foot board : 25.4 mm dia 1.2 mm thick ss202 made tube with 18 mm thick PLT board. Bed frame : bed frame is made of MS ERW rectangular section tube of size 30mmx60mm of 1.6mm thick. . it has Provisionision 4 iv pole holders . It is strengthened by rectangular tube section of size 60mmx30 mm having 1.6 mm thickness leg Under Structure : ERW round tubes used with thickness of 1.2mm with section 31.75 mm dia. Lying surface : Lying surface made of MS ERW of thickness of 1.0 mm thick . This lying surface have 4 sections for bed profiling i.e. back adjustment, fixed pelvic section, upper and lower leg adjustment. Lower leg rest section is provisioned with Ratchet for leg rest adjustment. Mattress platform is strengthened by tubular frame of size 25.4mm dia x 1.2mm thickness. It is strengthened by trapezoidal contour (rounded corner) 16 nos, embossed cut out. All metal components are pre treated with zinc phosphating and then powder coated with epoxy polyester powder coating. Mechanism : All functions are operated with lead screw mechanism, ACME threaded EN8 made 6mm pitch for easy in movement. Castors : High endurance, metal castors of 125mm dia having Provisionision for diagonal locking with stem dia 22mm should be provisioned for better stability. Powder coating : Anti rust, thermosetting epoxy polyester powder coating should be used. All powder coating is in Ral White. Maximum weight : Maximum safe working load is 135 kg. Handle : All the functions are operated with the help of single ergonomically handle, which are made of metal inserted PP co polymer , it's lever is snap locked when not in use. All the handles are Provided with operating guidance stickers. welding : To ensure quid quality welding " Co2 Argon" process is adhered to. powder coating : All metal components are pre treated with zinc phosphating in 7 tank process and then powder coated with epoxy polyester powder coating .]. packing : goods are supplied in knocked down construction to reduce carbon emission. In house test report : proof loading test , cycle tests , impact test, horizontal and vertical load tests for side rails, salt spray test, castor break test, pull test for head and foot board. The rate shall include all</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	193	<p>Providing and Supplying hospital locker. The bedside locker has single drawer and cabinet with lock and with plastic molded handle. There is space between plastic top and the cabinet to keep the general items for the frequent use. Cabinet is Provisionided with lock to keep the valuable items for the safety. overall dimensions should be 490mmW x 410mm D x 941mm H. Corner tube made of ERW round tube with section 25.4 mm dia of 1.2 mm thickness. Cabinet made of CRCA sheet of 0.8 mm thick Provided with lock.(470 mm x 410 mm x 382 mm). Top made of ABS of 2.2 mm thick. Top has recessed and contoured shape for better aesthetic and usability. Plastic molded knob is Provisionided with Matt finish and dome shaped for better grip. Plastic molded castors with 50 mm dia placed in diagonal locking arrangement. RAL white, plastic parts in Grey. 5 kg UDL on both the tops and 10 kg in the cabinet. All metal components are pre treated with zinc phosphating in 7 tank process and then powder coated with anti microbial epoxy polyester powder coating to fulfill the requirements for bacterial protection against at least 2 commonly found bacteria in Hospital environment [Gram positive and Gram Negative]. goods are supplied in knocked down construction to reduce carbon emission. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	194	Providing and Supplying of IV pole of saline stand. Overall dimension should be 250 mm PCD with height adjustable from 743 mm to 1150 mm. it is fully SS made used on bed with telescopic rod for height adjustment. The bottom adapted is 12 mm dia, fixed tube is 15.9 mm dia , 1.6 mm thick ERW Tube. Telescopic rod is 12 mm dia ERW tube. there are 2 nos 6 mm dia hooks to hand saline bags. Maximum load bearing capacity is 2kg per hook.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	195	Providing and Supplying of Examination couch with full storage of Examination couch with full storage- Overall dimension 1975 mm (L) x 560 mm (W) x 805 mm (H). Examination couch with three drawers with three cabinets, inbuilt step stool and BP tray holder.the base frame should made of 30 mm x 30 mmX 1.6 thick ERW tube. The cabinets should made of 1 mm thick CRCA sheet with recessed plastic handles and with lock and plastic door latch. the hindges of the cabinet should be made of sheet metal and pin arrangement. The internal dimension of the two sidecabinets should be 422 mm (W) x 455 mm (D) x 540 mm (H). the internal dimension of the centarl cabinet should be 422 mm (W) x 455 mm (D) x 358 mm (H). The storage cabinet unit should be mount tubular base frame. The head rest should be adjustable on gas spring which should be actuated with C shaped handle lever . The drawers should made of 1 mm thick CRCA sheet with recessed plastic handles and work on double extension ball slides for smooth glide. the internal dimension of the drawer should be 330 mm (W) x 427 mm (D) x 92 mm (H). The mattress platform should be 65 mm thick which is made of 12 mm thick ply and PU foam and covered with leatherite cover.the cover should be water resistant, fire retuardant, aniti micraobial . the cover should have in-vitro cytotoxicity test report from reputed test lab. the end of the top mattress surface should be tapered end edge for ergonomic benifit. There should be ss304 made tissue roll holder present on the lower side of the back rest. There should be 1 mm thick CRCA made step stool with leveler with double extension ball slide for smooth operation. There should be 1 mm thick CRCA made BP aparatus holder which should be adjustable in height on a SS made height adjustable rod. Total load bearing capacity should be 135 kg. The examination couch should be provided with six numbers levelers made of metal and plastic for adjustment on the uneven floor. All the metal parts should be pre treated and powder coated with epoxy polyester powder coating.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	196	Hydraulic labour bed Structure made up of 60x30x1.6 mm tubes with dual support system of 40x20x1.6 mm tubular CRCA frame work Top made up of water proof 5 mm backlight (hi lam) sheet in three pieces Upper layer and bottom layers must be jointed by single pivot mechanism made up of 20x40 mm tubes Sliding roller mechanism for leg movement portion Head portion made up with cnc made roller mechanism with gear modules system with abs handle for up down at various positions . Main height up down feature available with hydraulic single release system 125 mm heavy duty castor's 1 set of lithotomic leg rest 3 sectional top with high quality cusioned work Cushioned top made with 40 density with Rexine cover	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	197	Providing and Supplying of round stool should have of round stool. Overall dimension should be Diagonal Leg Dia 538 mm H470 min-655max. Top plate made of SS 304 made sheet with spin section of thickness 1mm and non corrosive. It has a diameter of 305mm, seat base made of MS ring and rectangular tube. EN8 Screw having dia of 22 mm is used for height adjustment of the seat base. The round hub made of MS ERW tube having dia of 38mm and thickness 2 mm. The Hub is welded with the legs and it accommodate and cover the lead screw mechanism. The under-structure consist of 4 legs made up of MS ERW tube of diameter 25.4 mm and 1.6mm thick. The press formed pipe leg give a round and clean look. All the legs is Provided with 4 nos of Nylon-6 bush. All metal components are pre treated with zinc phosphating in 7 tank process and then powder coated with epoxy polyester powder coating . Safe working load is 135kg .The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	198	Supplying of Dust bin of approved brand Sintex or equivalent (as per photographs) of 100 Liter Capacity	Specification as per Electric work Booklet Page 1 to 49
Item No.	199	Providing and Supplying STRETCHER ON TROLLEY should have Strecher on trolley with Overall dimension should be 2005 mm (L) x 666 mm (W) x 827 mm (H). It should be removable stretcher on trolley moited on castors.. The trolley should be made of 31.75 mm and 25.5 mm dia 1.2 mm thick and 1.6 mm thick ERW tube. The casters should be 200 mm dia diagonal lockable castors. stretcher understructure should be made of 25.4 mm dia 1.6 mm thick ERW tube and the top should be made of 1.2 mm thick CRCA sheet. The stretcher should have provision to mount IV pole at four corners. The product should be pre treated and powder coated with Epoxy polyester powder coating.The maximum load bearing capacity should be 135 kg.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	200	Providing and Supplying Foldable wheel chair should have Foldable wheel chair with Over all dimension should be (L) 790 x (W) 600 x (H) 870mm Foldable frame structure should be made of section 22x1.2mm A3 carbon steel with chrome finish. Cross bar should be made of A3 carbon steel with section 25.4 x 1.2mm.The Rear wheel should be made of 24 inch Solid mag wheels with alloy in the rim .Integrated handrim should be provided to drive the wheel chair of section 16x1.2mm A3 carbon steel with chrome finish. The front wheel should be of 8 inch HUB made of PA polymer and outer with solid rubber. PU molded arm rest and base should be made of ABS for better arm support .There should be Leatherite strap for calf rest and leatherite cushion for seat. The foot rest should be Adjustable alluminium die cast foot rest with updown and swivel type mechanism and Push Handles should be made of moulded rubber grip to push the wheelchair. Hand brakes should be provided to lock the wheelchair at desired location. The finsih of chair should be antirust chrome .The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	201	Providing and Supplying Three-Fold partition screen should have Three-Fold partition screen- Overall dimension: L 2637 X W 640 x H 1720 MM. Frame should be made of ERW tube with movable plastic hinges. The fix frame should be made of 25.4 mm dia 1.2 mm thich ERW tube, the movable frame should be made of 19.05 mm dia 1.2 mm thich ERW tube and the leg frame should be made of 30 mm suqare tube with 1.6 mm .thick. The fixed portion should be 1075 mm width and the movable portion should be 778 mm width. 50 mm dia wheel castors should be provided. All MS parts should be pre treated and powder coated with thermosetting epoxy polyester. Green color Casement fabric must be provided for modesty.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	202	Providing and Supplying of OXYGEN CYLINDER TROLLEYshould have MS Oxygen cylinder trolley suitable for B type oxygen cylinder. The overall dimension should be 410 mm (L) x 375 mm (W) x 1112 mm (H). The main frame should made of 25.4 mm dia 1.6 mm thick ERW tube with 10 mm dia ms made locking rod to keep the cylinder position during transit.The trolley should be provided with 100 mm dia 25 mm thick PU wheel for longer durability. LDPE made leg bush should be provided on the legs. Max load bearing capacity should be 50 kg.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	203	Providing and Supplying of Instrument trolley should have ISO 13485:2016 certificate from NABCB certified agency, CE certificate from european notified body with 4 digit registration code, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 Certified and should be mandatorily submitted along with Bid. of Instrument trolley- SS 304 sheet should be provided at top for the placement of the instruments being used and also for easy in portability. SS 304 sheet should be provided at the top as well as bottom shelf for keeping the instrument being used. Horizontal bars should be welded with legs so as to provide protection at sides with supporting legs giving a sturdy look.Castors of 125mm Dia. should be used for easy in movement. Overall Dimension: 775mm X 531mm X 915mm H. Maximum safe working load must be 40kg.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	204	Providing and Supplying of Medicine trolley should have Medicine trolley-Overall dimension: - 902(L) X 532(B) X 915(H) mm. Top shelf and bottom shelf should be made of SS304 sheet with 1mm thickness and 1.2mm. Rest of the components like supporting legs, horizontal bar handle should be made of SS 304 pipe having dia 31.8, 12.7 mm respectively. The castors of high quality plastic injected molded and anti static having the dia of 125mm should be used.Handles made of SS 304 pipe having section of 16mm and thickness of 1.2mm should be used.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	205	Providing and Supplying mayo trolley should have Mayo trolley-overall sizes of Base rectangle 504mm X 655mm X Adjustable from 814mm to 1340 mm. Height adjustment will be achieved with screw knob mechanism. Bottom frame should be made of 1.2mm thick SS 304 tube of dimension 38 x 38mm square tube. Top frame should be of 1.2mm thick and 304 SS grade rectangular shape of dimension 30 x 30mm. Fixed tube of 3 mm thickness square in shape of 38 x 38mm telescopic tube should be used of 2 mm thickness rectangular in shape of 30 x 30mm. Locking knob should be used ergonomically designed made of SS screw and nylon knob. Tray supporting frame should be of thickness of 1mm. Castors must be injection molded type of 50mm dia having high endurance, anti-static properties. Safe working load must be 20kgs.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	206	Supplying and installing Biomedical waste trolley of 60 Liter capacity of Best Plastic and approved brand and selected colour etc.(As per Photograph) Sintex or Equivalent.(Set of 3 Bucket)	Specification as per Electric work Booklet Page 1 to 49
Item No.	207	Providing and Supplying crib should have Crib for infant should be made of wire mesh crib on ms trolley.Dimension Overall size should be 892 mm (L) x 536 mm (W) x 1008 mm (H).The crib is of 16 mm and 5 mm dia 1.6 mm thick ERW tube. The mesh is designed to accommodate the baby to Provide ventilation and visibility.The base frame is of 25.4 mm and 10 mm dia 1.6 mm thick ERW tube with 125 mm individual locking castor.The maximum load bearing capacity is 20 kg.All metal components are pre treated with zinc phosphating in 7 tank process and then powder coated with epoxy polyester powder coating .All powder coated parts in RAL white.Maximum patient load is 20 kg. packing goods are supplied in knocked down construction to reduce carbon emission. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	208	Providing and Supplying mattress should have Mattress with overall dimension should be (L)615mm*(W)315mm*(H)50mm MATTRESS FOR CRIB ON BED and CRIB ON TROLLEY , mattress made of 40 density pu foam. The mattress have high end heavy helium cover which is water resistant, x ray permeable, fire retardant.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	209	Providing and Supplying mattress should have Mattress with Overall dimension should be (L)1415 mm*(W)785 mm* 75 mm(H).Mattress is with 40 density 75 mm thick Single section PU foam mattress which is covered by heavy helium material which is water proof, flame retardant, vapour and X-ray permeable. The zip and stitches for the mattress cover is concealed. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	210	<p>Providing and Supplying of Emergency Crash Cart should have Advanced emergency cart constructed of CRCA Powder Coated MS Sheet of thickness 1.2mm. overall dimension of L 1037 W x 672 H x 1435 mm.</p> <p>Should have 5 drawers with drawer configuration: 2 small (390(L)x600(W)x71(H)mm) + 2 medium (390(L)x600(W)x149(H)mm) + 1 Large (390(L)x600(W)x227(H)mm). all drawers should be lockable through central locking. Should have anti-tilt mechanism. should have minimum five drawer with adjustable acrylic separators. Should have cam lock type central locking mechanism for drawers Provided with 100 security seal tagsShould have following accesories items.defibrillator shelf with monitor straps, sharps container – 2qty. oxygen cylinder holder, cardiac chest board made of compact laminate, push/pull writing surface, utility tray, document holder, catheter holder., a waste bin discarding syringes and gloves.wire wounder and mounting screws for spike guard.cart should have ABS vacuum formed top tray of thickness 3mm, Aluminum push handle of dia. 25mm built into the end panel for smooth stable movement. Pullout writing surface top. cart should be light, sturdy, scratch and dent resistant. should have 4 TPE corner bumpers for collision protection, Single wheel front locking castors should have 125mm diameter to facilitate quiet and easy movement. ABS grade made top sheet with 3mm thickness should be used. MS Cylinder case should be used with 2 Velcro straps to hold the cylinder with a foam padded base. SS 304 grade pipe of section 16mm and thickness of 1.6mm should be used to mount IV rod. High endurance anti-static, Aluminum handle pipe should have section of 25mm with length of 365mm and should have thickness of 1mm giving a glossy finish. Metal parts should be pre treated and powder coated with epoxy polyester pwder coat. Safe working load must be 55kgs.Optional accessory: Spike guard/Extension board.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	211	<p>Providing and Supplying single bed with Overall Size:Width - 2050.0 mm Depth - 973.0 mm Height - 720.0 mm.Material:Headboard panels are made of 18 mm thick Prelaminated Particle Board. All the exposed edges are edge banded with 2 mm thick PVC edge banding.Bed leg frame structure consist of metal frames made of M.S. 50 x 25 mm box section in 1.2 thickness Internal Pipes made of 19 x 19 mm box section in 0.9 mm thickness. Headboard pipes are made of 25 x 25 mm box section in 0.9 mm thickness. Mattress holding bkt is made of 0.6 mm CRCA SHEET.Mattress frame sheetmetal top is made of 1 mm CRCA SHEET.Hardware:The high quality hardware used. Construction:Knock Down construction.Packets: 1 packet. Finish:18 mm thick Prelaminated Particle Board is in 4501, make — GODREJ (SHIRVAL).Bed leg frame structure are powder coated in shade : MATT TAUPE WHITE. REF NO. 9001904to thickness of 50 microns (+-10). Mattress frame structure are powder coated in shade : EPP FR TEX. MILKY WHITE 20K, REF NO. 9003456 to thickness of 50 microns (+-10). Rest all metals are powder coated in shade : S/G CHARBROWN. REF NO. 9000605 to thickness of 50 microns (+-10).The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	Specification as per Electric work Booklet Page 1 to 49

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	212	Providing and Supplying side table with Overall Size :Depth — 461.0 mm Width — 460.0 mm Height — 510.0 mm Material:Body panels of Bed side table are made of 18 mm thick Prelaminated Particle Board 1S:12823 Class E1 (as per EN13986) .All the exposed edges are edge banded with 0.8 mm thick PVC edge banding glued with Hot Melt EVA glue.Drawer front are made of 18 mm thick Prelaminated Particle board 1S:12823 Class E1 (as per EN13986). Hardware:The high quality hardware used like Roller slides, Hinges , minifix, dowels is of make Hettich.Construction:Knock Down construction.Packets :1 packet.Finish :.18 mm thick PrelaminatedParticle Board 1S:12823 Class E1 (as per EN13986) is in Imperial Oak shade.Lipping shade is 299P MAKE REHAU.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	213	Providing and Supplying glass door storwel . Glass Door Storwel shall have an overall size of 916mm(W)x486mm(D)x1980mm(H) with welded construction. It should have shelf thickness of 0.7 mm, Back thickness of 0.8mm, Door thickness of 0.8mm (high yield strength) and all other components shall have a thickness of 0.9mm. These components shall be made of CRCA 'D' grade high yield strength as per IS:513. The glass door storwel shall have a brass handle and a 2 way locking mechanism with shooting bolt . It should have a height wise adjustable shelf mounting which shall have a Uniformly Distributed Load Capacity of max 40 Kg. It should also have a M10 Screw type Leveller with Hex plastic base. The finishing shall include Epoxy powder coated to the thickness of 50 microns (+/- 10). Plenty of colour options and shelving options shall be available.The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	Specification as per Electric work Booklet Page 1 to 49
Item No.	214	Providing and Supplying main table with ERU ..Supplying and placing in position Main Table with ERU of the following specifications. Its size shall be 1650 Width x 700 Depth x 743 Height (Main Desk) 1000 Width X 450Depth X 743 Height (ERU).Top shall be of 18 mm thickness made of PLT board with 2 mm Edge banding. Wenge and savannah Maple PLT board shall be used. The Understructure shall be in pre-laminated panels made with PLT boards . 2-Drawerand 3 - Drawer storage units with different combinations to support tops made with 18 mm PLT boards of different colours.Modesty and back panels made with 18 mm PLT boards. The pedestals / storages shall be fitted with necessary locks. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	
Item No.	215	Providing and Placing Slotted Angle Rack : 1300 W X 500 D X 1895 H mm. To be provided with 5 Shelves. Blotless Rack made of CRCA Steel.	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	216	<p>Providing and Supplying Leatherette chair with High Back Chair. SEAT/BACK ASSEMBLY : The Cushioned seat should be made of Injection molded Plastic outer and inner. Plastic Inner should be upholstered with pure leather and moulded High Resilience (HR) Polyurethane foam of Density 45 ± 2 kg/m³, and hardness load 16 ± 2 kgf for 25 Percent compression. The Cushioned back should be made of PU Foam with insitu molded MS E.R.W Round Tube of size 1.9 ± 0.03 cm x 0.16 ± 0.0128 cm. It upholstered with Pure Leather. Seat SIZE : 47.6 cm. (W) x 49.2 cm. (D) BACK SIZE : 47.5 cm. (W) x 77 cm. (D) ARMRESTS: The armrest top should be moulded from polyurethane (PU), upholstered in pure leather and mounted on to a drop lift adjustable type tubular armrest support made of 03.81 ± 0.03 cm x 0.2 ± 0.01 cm thk M.S E.R.W tube having chrome plated finish. The armrest height adjustable up to 6.5 ± 0.5 cm in 5 steps. ACTIVE BIO-SYNCHRO MECHANISM: The adjustable tilting mechanism should be designed with the following features: • 360° revolving type. • Front-pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort. • Tilt tension adjustment can be operated in seating position. • 5-position Tilt limiter giving option of variable tilt angle to the chair. • Seat/back tilting ratio of 1: 2 • The mechanism housing should be made up of HPDC Aluminium black powder coated. SEAT DEPTH ADJUSTMENT: Seat depth adjustment should be integrated in the seat through a sliding mechanism. Seat depth adjustment range should be of 6.0 ± 0.5 cm. ADJUSTABLE BACK SUPPORT: Back Frame should be connected to the Up/Dn mechanism housed in Plastic T spine. It can be adjusted in the range of 7.42 ± 0.5 cm for the comfortable back support to suit individual need. PNEUMATIC HT. ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 10.0 ± 0.3 cm. PEDESTAL ASSEMBLY The pedestal should be High Pressure Die cast polished Aluminium and fitted with 5 nos. twin wheel castors. The pedestal should be 65.0 ± 0.5 cm. pitch-center dia. (75.0 ± 1.0 cm. With castors.) TWIN WHEEL CASTORS: The twin wheel castors should be injection moulded in Black Polypropylene. Overall Dimensions of Chair-Seat Height - 44.5 to 54.5 cm. Height - 114.0-131.5 cm. Width and Depth of Chair as measured from base - Width-76.1 cm and Depth-76.1 cm The rate shall include</p>	<i>Separate sheet attached.</i>
Item No.	217	<p>Providing and Supplying Leatherette chair office chair. SEAT/BACK ASSEMBLY: The seat and back should be made from seasoned wood and plywood. The same should be upholstered with black synthetic leather and polyurethane foam. BACK SIZE: 46.0 cm. (W) X 27.0 cm. (H) SEAT SIZE: 46.0 cm. (W) X 40.0 cm. (D). ARMREST TUBE: The armrest tube should be made of $0 2.54 \pm 0.03$ cm. x 0.2 ± 0.016 cm. thk. M.S. E.R.W. tube and powder coated (DFT 40-60 microns). UNDERSTRUCTURE ASSEMBLY: The understructure assembly should be a cantilever type frame made of $0 2.54 \pm 0.03$ cm. x 0.2 ± 0.016 cm. thk. M.S. E.R.W. tube and powder coated (DFT 40-60 microns). Overall Dimensions of Chair-Seat Height - 48.0 cm. Height - 87.5 cm. Width and Depth of Chair as measured from base - Width-58.0 cm and Depth-56.5 cm. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	218	<p>Providing and Supplying public seating. SEAT SHELL : The Seat is made from high density self-skin Polyurethane foam reinforced with 1.2 mm M.S. perforated sheet insert. The Polyurethane foam having density of min. 350 kg/m³ with a Shore 'A' hardness of 60±10. SEAT SIZE : 52.0 cm (W) x 50.5 cm (D) BACK SHELL : The Back is made from high density self-skin Polyurethane foam reinforced with 1.2 mm M.S. perforated sheet insert. The Polyurethane Foam having density of min. 350 kg/m³ with a Shore 'A' hardness of 60±10. BACK SIZE : 52.0 cm (W) x 53.5 cm (H) CROSS BEAM : Cross Beam made up of Diamond shaped double wall Extrusion of Aluminum 6063-T6 Alloy with coated of 50 micron epoxy polyester coating and fitted with Polypropylene Copolymer engineering plastic end caps. CROSS BEAM SIZE : 11.3 cm (W) x 9.4 cm (H) X 0.4 cm (Thickness). LEG : Legs are made up of High pressure Aluminum ADC12 Die cast coated with 50 micron epoxy polyester coating, Leg Are fitted with soft grip PVC level adjusting shoes. ARMREST : Armrest are made up of High pressure Aluminum ADC12 die cast coated with 50 micron epoxy polyester coating. SEAT SUPPORT BRACKET Assembly : Seat support bracket assembly made up of argon shield welding of Hot Rolled Steel (IS: 2062) 0.3cm Thickness. This welded structure is coated with 50 micron epoxy polyester coating. CLAMPING BRACKET : Clamping bracket are made up of Hot Rolled Steel (IS: 2062) 0.3cm Thickness coated with 50 micron epoxy polyester coating. Overall Dimensions of Chair-Seat Height - 42.5 cm. Height - 87.0 cm. Width-165.5cm and Depth-66.5 cm. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	<i>Separate sheet attached.</i>
Item No.	219	<p>Providing and Supplying Green certified center table should be mandatorily submitted along with Bid. of coffee table. CENTER TABLE GLASS: It is 10 ±0.3 mm thick black tinted Toughened glass UV glued with bushes made in SS 202 grade for facing with understructure. CENTER TABLE UNDERSTRUCTURE: It is a welded Assembly made in SS202 grade Dia. 12±0.04 as per IS:1762. Width of table Equal 112.0 cm, Depth Equal 60.0 cm, height Equal 34.9 cm. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	
Item No.	220	<p>Supplying and Placing Slotted shoe Rack : 900 W X 300 D X 750 H mm. To be provided with 4 Shelves with SS 304 grade supporting legs, horizontal bar is made of SS 304 pipe having dia 31.8, 25 mm respectively.</p>	<i>Separate sheet attached.</i>
Item No.	221	<p>Providing and Placing of Manual Roller blinds having Aluminum Roller tube along with fabric pasted on it with glue having control unit for manual operations and bottom bar Aluminum powder coated for weight purpose, including fabric, fitting and accessories of approved make and colour etc. complete. Vista/Hunterdouglas or equivalent. Fabric to be approved by architect</p>	<i>Separate sheet attached.</i>
Item No.	222	<p>Providing and Placing of Dust bin of approved brand Sintex or equivalent (as per photographs) of 5 Liter Capacity</p>	<i>Separate sheet attached.</i>
Item No.	223	<p>Providing and Placing of Chart holder for holding the chart which can be hanged on the side of beds. Material:- CRCA 0.6mm Thickness powder coating: All metal components should be pre treated with zinc phosphating in 9 tank process and then powder coated with anti microbial epoxy polyester powder coating</p>	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	224	Providing and Placing Photo with Frame, Size : 600 X 400 Providing and Fixing Photo Frame made of Teakwood Border Patti of size 25x25 with melamine polish finish with 3 mm glass and inside the picture on Photo paper with high resolution picture quality and stucked on MDF as selected by engineer-in-charge including all necessary fixture, fasteners,labour , material etc comp.	<i>Separate sheet attached.</i>
Item No.	225	Providing and Placing Ajanta Make : Wall Clock Providing and fixing Ajanta make wall clock of the desired shape and design as selected by engineer in charge Ajanta Wall Clock	<i>Separate sheet attached.</i>
Item No.	226	Providing and Placing Kitchen Platform Providing and Fixing kitchen storage made of 18mm thick BWR plywood with 1mm thick laminate finish.drawers and shutter made of 18mm thick BWR plywood with 1m thick laminate finish.Drawer run on telescopic chennal and shutter hanging on auto hinges with all necessary hardware included.Kitchen under storage	<i>Separate sheet attached.</i>
Item No.	227	Providing and Placing Alkosign Make : Key Cabinet 40 keys Providing and fixing Steel Back key cabinet for 40 keys having overall size of 520mm (W) x 50mm (D) of 500mm (H) of 13mm Anodised aluminum single and double frames. Back steel sheet is grey colour powder coated with 40 nos punched holes for key chain with steel wire rings numbered 1 to 40 having corners of ABS in grey colour. Cabinet should with 1 no of lock with 2 nos of keys and top cover in 3 mm thick acrylic sheet including all neccessary fixture, faster, fittings, labours material machniary etc complete as selected and directed by engineer incharge Approved make: scholar/pearl/alkonsign/elora Key Cabinet : size : 520mm x 500 mm	<i>Separate sheet attached.</i>
Item No.	228	Providing and Supplying storage with Overall Dimensions of Store Up 600 W MAIN BOND WHT shall be 600 mm W x 326 mm D x 785 mm H . The Construction shall be aesthetically appealing completely knock down construction made from 0.6 mm thk. CRCA as per IS - 513 . Horizontal stiffener shall be made from 1.2 mm thk. CRCA as per IS - 513 . The doors shall be made from 18 mm thk. interior grade pre-laminated board as per IS - 12823 or 18 mm thk . Plain particle board as per IS -3087 with 0.6 thk. with 0.6 mm thk. decorative laminate and 0.6 mm thk. backing laminate as per IS - 2046 on either side . All edges shall be duly sealed with 2 mm thk. PVC edge banding . Two door with single lock on RH door . Locking shall be 10 lever cam lock lever at the bottom of the door .Shelving shall be Heightwise adjustable shelf 1 no. Uniformly distributed load capacity of 25 Kg UDL .The finish shall be Epoxy powder coated to the thickness of 50 microns .Overall Dimensions of Store Up 600 W WDN DOOR HL PINE shall be 298 mm W x 18 mm D x 783 mm H RH side door with lock.298 mm W x 18 mm D x 783 mm H LH side door w/o lock . The doors shall be made from 18 mm thk. interior grade pre-laminated board as per IS - 12823 or 18 mm thk . Plain particle board as per IS -3087 with 0.6 thk. with 0.6 mm thk. decorative laminate and 0.6 mm thk. backing laminate as per IS - 2046 on either side . All edges shall be duly sealed with 2 mm thk. PVC edge banding . It shall have two door with single lock on RH door . The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	229	<p>Providing and Supplying Eco wooden storage range comprises of a range of Low height to medium height wooden HDU and SDU as per attached DMX drg. Body : Body is made from 18mm PLB with all the edges sealed with 0.8 mm thick PVC Edgeband. The Back panel is 9mm White PLT. The entire construction is ready to assemble unit and is assembled with suitable KD fittings. The shelves and separator panels (if available) is made from 18 mm white PLT and edges are sealed with 0.8 mm edge band. The bottom shelf is fixed and other shelves have one step adjustment for optimizing the space. Doors : Door Panels are made from 18 mm PLB with 2 mm Edge band on all edges and a flush Plastic handle is fitted vertically at the center of the door. The hinge door has suitable hinges and HDU is fitted with an adjustable fitting for height adjustment. The SDU runs in a PVC track mounted on the TOP and Bottom panel of the Body. HDU has a three point lock and SDU has a push type lock. All the storages are fitted with a 6 mm leveler at bottom for leveling. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.</p>	<i>Separate sheet attached.</i>
Item No.	230	<p>Providing and Placing Single Bed Mattress ,pillow,bedsheet with pillow cover ,with 12mm thick prelam mdf back- 900x1950x100mm - goldline plus pu form 40 density 300 gsm cotton satin quilt cover. Mattress back putti made of 12mm thick prelam mdf bothside white finish. Kurlon dew pillow 600x400 Fill: Polyester Fibre Quality of shell fabric: 110 GSM cotton satin patti Outer Shell Layer: Cotton Fill Weight (in gms): 650. Bedsheet with pillow 100 Percent cotton of bombay dyeing or eq.</p>	<i>Separate sheet attached.</i>
Item No.	231	<p>Providing and Fixing 3 Seater Pero Cross Beam made of black 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.</p>	<i>Separate sheet attached.</i>
Item No.	232	<p>Providing and Placing inquiry counter with Worksurface of size W - 3665 X D 1060 X H 750 Worksurface and 1350 counter made of - Decorative Laminate Particle board 25mm thick. Inside radius 700.0 mm outside radius – 1350.0 mm Depth – 650 mm. Rubberized cork – 18mm thick. should have Glass Frosted of 10mm thick Diamond cut finishing on edges. Inside Radius – 1202.5mm Outside radius – 1402.5mm Depth – 200mm *Note: Angle sustained within arc surface is 60 deg. Understructure should have Modesty Panel MS Perforated sheet Below Worksurface : 0.8 mm (thick) x 665.0mm (height) x 1345.0 mm (flat length) Above Worksurface : 0.8mm (Thick) x 260 mm (height) x 1345.0 mm (flat length). Legs MS tube 1.6 mm thick Diameter 50.8 mm Height 604 mm.</p>	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	233	Providing and Supplying of Stool Mch Ht Adj + back Hi Base. 1) SEAT ASSEMBLY: The seat should be made up of 1.2±0.1cm thick flat plywood and with moulded Polyurethane foam and should be upholstered with replaceable synthetic leather covers. SEAT SIZE: Diameter 40.0 cm ADJUSTMENTS: 360° Revolving type 2) BACK. ASSEMBLY: The back foam should be designed with contoured Lumbar support for extra comfort. The upholstery should be available in synthetic leather. *BACK SIZE: 45.0 cm (W) covered with polyurethane foam 3) HIGH RESILIENCE (HR) POLYURETHANE. AM: The HR polyurethane foam should be moulded with density Equal 45 +1-2 kg/m ³ and Hardness load 16 ± 2 kgf for 25 Percent compression 4) HEIGHT ADJUSTMENT: The manual height adjustment should be very easy to operate with a help of a knob. It can be easily locked at the most comfortable position. 5) PEDESTAL ASSEMBLY: The five-prong pedestal should be fabricated from 0.2 ± 0.02 cm thick HR sheet. (should be . DD 1079 / HR), powder coated (DFT 40-60 microns) and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel castors. The pedestal should be 55.0±0.5cm pitch-circle-diameter- (65.0±1.0cm-with-castors). -Circular-foot-ring of 052.0±0.2cm made up of 01.9±0.2 x 0.12±0.0096cm thk MS ERW Tube for foot support in High-base stool. 6) TWIN WHEEL CASTORS: The twin wheel castors should be injection moulded in Black Nylon. Width- 65.0cm, Depth- 65.0 cm, Height- 88.0cm to 99.5cm Seat Height- 67.0 to 78.5cm. The rate shall include all materials, hardware, and labour etc. complete as per instruction of engineer-in charge.	<i>Separate sheet attached.</i>
Item No.	0	MGPS WORKS	<i>Separate sheet attached.</i>
Item No.	234	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 28mm OD X 0.9mm thick	<i>Separate sheet attached.</i>
Item No.	235	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 22mm OD X 0.9mm thick	<i>Separate sheet attached.</i>
Item No.	236	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 15mm OD X 0.7mm thick	<i>Separate sheet attached.</i>
Item No.	237	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 12mm OD X 0.6mm thick	<i>Separate sheet attached.</i>
Item No.	238	Gas Outlet Points/ Terminal Unit : As per tender technical specifications. a. Oxygen as per IS/ISO : 2008 IS/ ISO 7396-1 2016 HTM 02-01 Class II b MDR 2017/745	<i>Separate sheet attached.</i>
Item No.	239	Matching Probe/adopter As per tender technical specifications. a. Oxygen	<i>Separate sheet attached.</i>
Item No.	240	Single gas digital alarm with NIST BS EN ISO 7396-1 2016 . HTM 02-01 part A&B EN 60601 -1	<i>Separate sheet attached.</i>
Item No.	241	Oxygen Flow meter with Humidifier Bottle - As per tender technical specifications as per IS/ISO 15002: 2008 +AM 1: 2019 IS/ ISO 7396-1 2016 HTM 02-01 Class II b MDR 2017/745	<i>Separate sheet attached.</i>
Item No.	242	Isolation Lockable line valves with stub fittings :As per technical specifications. 15mm	<i>Separate sheet attached.</i>
Item No.	243	Isolation Lockable line valves with stub fittings :As per technical specifications. 22 mm	<i>Separate sheet attached.</i>
Item No.	244	Isolation Lockable line valves with stub fittings :As per technical specifications. 28 mm	<i>Separate sheet attached.</i>
Item No.	245	5x5 Oxygen Cylinder Manifold system with header	<i>Separate sheet attached.</i>

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	246	High flow piston Regulator IS/ ISO 7396 IS/ISO 10524-2 -2016 , IS/ISO 10524-4:2008 HTM 02-01 ClassII b MDR 2017/745	<i>Separate sheet attached.</i>
<p>Note :- The description of the item in the specifications booklet is in short and it will be stated as per Schedule-B. The testing charges @ 1% will be recovered from the bill of the tender</p> <p>Singnature of Contractor</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> Deputy Executive Engineer Project Implementation Unit Zone-6 Dahod </div> <div style="text-align: center;"> Executive Engineer ct Implementation Unit Zc DAHOD </div> </div>			