

NAME OF WORK:- Construction of New Maternity Home at CHC Garbada Ta. Garbada 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	Excavation for foundation upto 1.50 mt depth including sorting out and stracking of usefultmaterials and disposing the excaveted stuff upto 50 mt lead (B) Dense or Hard Soil	<i>Separate sheet attached.</i>
Item No.	2	Excavation for foundation upto 1.50 mt depth including sorting out and stracking of usefultmaterials and disposing the excaveted stuff upto 50 mt lead (C) Hard Murrum	<i>Separate sheet attached.</i>
Item No.	3	Excavation for foundation upto for depth from 1.5 M. to 3.0 M. including sorting out and stracking of usefultmaterials and disposing the excaveted stuff upto 50 mt lead (D) Soft Rock not requiring Blasting	<i>Separate sheet attached.</i>
Item No.	4	Excavation for foundation upto for depth from 1.5 M. to 3.0 M. including sorting out and stracking of usefultmaterials and disposing the excaveted stuff upto 50 mt lead (C) Hard Murrum	<i>Separate sheet attached.</i>
Item No.	5	Providing and laying cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 hand broken stone aggregate 40mm nominal size) and curing comoplete excluding cost of form work in (a) foundation and plinth	<i>Separate sheet attached.</i>
Item No.	6	Providing and laying controlled cement concrete M250 work with curing etc. complete including the cost of form work but excluding cost of Reinforcement for RCC work in (A) Foundation footing base of columns and mass concrete.	<i>Separate sheet attached.</i>
Item No.	7	Providing and laying controlled cement concrete M250 work with curing etc. complete including the cost of form work but excluding cost of Reinforcement for RCC work in Column upto Plinth Level.	<i>Separate sheet attached.</i>
Item No.	8	Providing and laying controlled cement concrete M250 work with curing etc. complete including the cost of from workbut excluding cost of Reinforcement for RCC work in (C) For Plinth Beam , Tie Beams at Ground Levels	<i>Separate sheet attached.</i>
Item No.	9	P & L Brick work using common burnt clay Building bricks having crushing strength not less than 35 Kg/ Sq.Cm. In foundation and plinth in cement mortar 1:6 (1 Cement: 6-Fine sand) with curing etc.comp. (b) Conventional	<i>Separate sheet attached.</i>
Item No.	10	Filling available excavated earth (excaluding rock) in trenches. Plinth, sides of foundation etc. in layers not exceeding 20cm. in depth consolidating each dispoisted layer by rammng and watering .	<i>Separate sheet attached.</i>
Item No.	11	Filling in foundation and plinth with murrum or selected soil in layers of 20 cm. thickness including watering, ramming and consolidating etc. Complete.	<i>Separate sheet attached.</i>
Item No.	12	Providing and Laying ordinary cement concrete 1:2:4 (1- Cement 2- coarse sand : 4- graded stone aggregates 20 mm nominal size) and finishing smooth with curing etc. complete including the cost of formwork but excluding the cost of reinforceement for R.C.C work in (floor slab,road etc.)	<i>Separate sheet attached.</i>
Item No.	13	Applying general insecticide pest control treatment to floors, cupboards etc including labour material etc. complete. Using Heptachloride 20 EC. As Per 6113_pests Consentrarion Weight 0.50 percent is recommended one litre chemical emulsion dillute with 39 liter of water will give. Total dillute concentration will be 40 litre inclusive of one litre chemical emulsion appication 0.5 Litre chemical / Sqm of surface is recommended as per I.S	<i>Separate sheet attached.</i>
Item No.	14	Providing and laying controlled cement concrete M200 work with curing etc. complete including the cost of form work but excluding cost of Reinforcement for RCC work in Column (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.	15	Brick work using common burnt clay building bricks having crushing strength not less than 35 Kg/ Sq.Cm. In Super Structure above plinth level up to floor two level in cement mortar 1:6 (1 Cement: 6-Fine sand) with curing etc. (b)Conventional. for G.F.	<i>Separate sheet attached.</i>
Item No.	16	Providing and laying controlled cement concrete M-200 with curing etc. complete including the cost of form work but excluding the cost of reinforcement for R.C.C. work in Lintel. (for all floor)	<i>Separate sheet attached.</i>
Item No.	17	Providing and laying controlled cement concrete M-200 with curing etc. complete including the cost of form work but excluding the cost of reinforcement for R.C.C. work in Beam for up to floor two level. (for all floor) (b) beam	<i>Separate sheet attached.</i>
Item No.	18	Providing and laying controlled cement concrete M-200 with curing etc. complete including the cost of form work but excluding the cost of reinforcement for R.C.C. work in Chajja. (for all floor)	<i>Separate sheet attached.</i>
Item No.	19	Providing and laying controlled cement concrete M-200 finishing with curing complete including the cost of form work but excluding the cost of reinforcement for R.C.C. work in Slab upto floor two level GF	<i>Separate sheet attached.</i>
Item No.	20	Providing and laying controlled cement concrete M-200 finishing with curing complete including the cost of form work but excluding the cost of reinforcement for R.C.C. work in Slab upto floor two level FF	<i>Separate sheet attached.</i>
Item No.	21	Providing and laying controlled cement concrete M-200 with curing etc. complete including the cost of form work but excluding the cost of reinforcement for R.C.C. work up to floor two level (for all floor)(A) Stair case	<i>Separate sheet attached.</i>
Item No.	22	Providing TMT Bar FE 500/500D reinforcement for R.C.C. work including Cutting, bending, binding and placing in position complete upto floor two level (For all floor)	<i>Separate sheet attached.</i>
Item No.	23	Brick work using common burnt clay Building bricks having crushing strength not less than 35 Kg/ Sq.Cm. In Super Structure above plinth level up to floor two level in cement mortar 1:6 (1 Cement: 6-Fine sand) with curing etc. (b)Conventional. for F.F. and above all floor	<i>Separate sheet attached.</i>
Item No.	24	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.	25	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.	26	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.	27	Providing and fixing flush door both sides laminated 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.x30m.m.etc. as per architectural detailed drawing and as directed by engineer in charge.	<i>Separate sheet attached.</i>

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1		2	3
Item No.	28	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>
Item No.	29	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>
Item No.	30	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.	31	Providing and fixing in position collapsible steel shutters with vertical channels 20 X 10 X 2mm braced with flat iron diagonals 20 X 5 mm size with top and bottom rails of T-ir 40 X 40 X 6mm with 38mm dia steel pulleys, complete with bolts, nuts, locking arrangements stoppers, handles including applying a priming coat of read lead paints	<i>Separate sheet attached.</i>
Item No.	32	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacing in and frame around square or round bars with round headed bolts and nuts or by screws. (A) Plain Grill.	<i>Separate sheet attached.</i>
Item No.	33	Providing and fixing 0.60 meterwide and 0.80Metr high sand which type platform including supplying and fixing granite stone 18 mm thick mirror polished 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 etc complete.	<i>Separate sheet attached.</i>
Item No.	34	Providing and fixing Godrej Type Steel cupboards in wall with steel frames and shutters using 18 gauge M.S. steel sheet including necessary fixtures, fastening like locks handles, hinges with approved shade of sparay painting etc complete as directed	<i>Separate sheet attached.</i>
Item No.	35	Providing and laying machine cut free edges machine polished Kota stone for shelves in cupboard and walls in single piece (Maximum 150mm) 25 mm. th. including cutting grooves in walls and fixing the stone with neat cement slurry in true line and level as direct. including moulding where required	<i>Separate sheet attached.</i>

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Item No.	36	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.	37	Providing and laying Granite slab (18 mm thick) one side polished flooring ,Stair Riser Tread 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 Etc complete.	<i>Separate sheet attached.</i>
Item No.	38	Providing and laying 24" x 24" Vitrified double charge 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1cement : 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.	39	Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in skirting risers of steps and dado on 10mm thick cement plastered Wall and Jointing or fitting tile with Tile adhesive Chemical(Roff,K2,Laticrete,Mapisa,pidilite C2TE S1 Only) and providing 4mm/5mm thick Spacer and filling Groove with approved epoxy sealant and Hardner Resin epoxy based grout(BAL Endura / Kerakoll / BASF or equivalent as per approved make & approved shade and color) in grooves in flooring or dado removing PVC spacer etc. complete.as directed by A.I.C..	<i>Separate sheet attached.</i>
Item No.	40	Providing and laying chequered terrazo tiles 22mm thick with marble chips of sizes upto 6mm in floors on 25mm thick bed of Lime mortar 1:1.5 (1-Lime putty : 1.5 coarse sand) or C.M. 1:6 (1 - cement : 6 - coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete. (B) Dark shades using ordinary cement.	<i>Separate sheet attached.</i>
Item No.	41	Providing 10mm thick cement plaster in single coat onbrick/concrete walls for interior plastering upto floor two level and finishing with floating coat of neat cement slurry even and smooth in (i)Cement mortar 1:3 (1-cement:3-sand) on ceiling and soffit	<i>Separate sheet attached.</i>
Item No.	42	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finishing with floating coat of neat cement slurry even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand)	<i>Separate sheet attached.</i>
Item No.	43	Providing 15 mm thick cement mala plaster in single coat on fair side bricks/concret walls for interior plastering up to floor two level finished even and smooth in cement mortar 1:4 (1 cement : 4 sand) etc complete. First Floor	<i>Separate sheet attached.</i>

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1		2	3
Item No.	44	Providing 20 mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing etc. complete.	<i>Separate sheet attached.</i>
Item No.	45	Providing and applying 2mm thick Texture Plaster Terre Plaitte (Spectrum, Coral or equivalent) incorporating fine fillments made of polymer and aggregating natural stone powder with making grooves on base coat of 20 mm thick smooth mala plaster (which paid separately) etc. complete.Colour and shade as approved by Architect/ Engineer in charge for at all floor, all height.	<i>Separate sheet attached.</i>
Item No.	46	Applying two coats of birla(White cement based) or Asian (acrylic lappy putty) or equivalent 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 matter foreign and sand papered smooth.	<i>Separate sheet attached.</i>
Item No.	47	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.	48	Finishing wall with weather proof exterior emulsion paint (Apex) on wall surface (two coats) to give an required shape even shade and including priming coat and after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete.	<i>Separate sheet attached.</i>
Item No.	49	Painting two coats (including priming coat) on new steel & other metal surfaces with enamel paint brushing interior to give an even shade including cleaning the surface of all dirt , dust & other foreign matter.	<i>Separate sheet attached.</i>
Item No.	50	Providing and laying chaina mosaic water proofing treatment on terrace including applying neat cement slurry 2.75 Kg./Sqm. Of cement admixed with water proofing compound after cleaning the surface (b) laying cement concrete usig brick bats 25 to 100 mm size with 50% C.M. 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound over 20 mm thick layer of C.M. 1:5 to required slope including rounding of junction of walls and slabs (a) after two days of proper curing applying a second with 20 mm thick C.M. 1:4 and china mosaic tiling and finally finishing the surface with trowel white cement slurry (e) after finishing the whole terrace shall be flooded with water for a period of two weeks.	<i>Separate sheet attached.</i>
Item No.	51	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)	<i>Separate sheet attached.</i>
Item No.	52	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.	53	Providing corrugated G.I. sheet of class-3 roofing fixed with glavanished 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>

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1		2	3
Item No.	54	Providing and Placing Bed Slide Medical Curtain with S.s. Rail with SS Ring etc complete rate incl. fabric fittings & accessories of approved make curtain fire retardent	<i>Separate sheet attached.</i>
Item No.	55	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 hilty 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.	56	Fabricating, supplying and fixing in position SS railing for staircase with brush finish and 316 grade as per Indian Standrd and detailed drawing including grinding, cleaning and filling the welded spots with SS finish (Only standard measurements will be paid for).	<i>Separate sheet attached.</i>
Item No.	57	Fabricating, supplying and fixing in position GRAB BAR 18" (450MM) For handicapped toilet with brush finish and (S.S.304) grade as per Indian Standrd and detailed drawing including grinding, cleaning and filling the welded spots with S.S. finish.	<i>Separate sheet attached.</i>
Item No.	58	Wall Painting (two coats) with antibacterial polyrethane epoxy paint approved brand and manufacture on internal walls to give an even and smooth surface. Thoroughly brushing the surface free from mortar dropings and other rorieng matte and sand papered smooth etc completed as directed by E.T.C/PMC .	<i>Separate sheet attached.</i>
Item No.	59	Pro. And fixing single layer water proof gypsum board 12.5 mm thick sections using water proof board of size 1220 mm x 1830 mm x 8.0 mm suspended by GI suspender channel of size 25 mm x 3 mm with intermediate channel og size 18 mm x 40 mm x 0.8 mm at 1220 mm center to center ceiling section of size 40 mm x 35 mm x 0.55 mm at 457 mm c/c nd perimeter channel A of size 20 mm x 27 mm x 30 mm x 0.5 mm at edges & drops incl.paper tap sand sofit cleat, anchor fastener, scoch bolt connecting cleat,joining compound top coat on ceiling incl.making necy.opening for light fitting,diffuser etc. comp. as per detail drawing as directed	<i>Separate sheet attached.</i>
Item No.	60	Providing, laying controlled cement concrete M 250 and curing complete including the cost of form work (rates for centering, shuttering, formwork staging scaffolding for considering up to 4.50m height) but excluding reinforcement for reinforced concrete work in: (D) RCC Wall (i) up to Ground Floor slab level	<i>Separate sheet attached.</i>
Item No.	61	Supplying FRP Planter 15"x15"x15" made of white or any shade required FRP (Fibre Reinforced Polymer) Planter	<i>Separate sheet attached.</i>
Item No.	62	PVC Fluted Panel Wall Panelling : Providing & Fixing wall paneling made from 12mm thk Marine plywood (IS:710) grade with back cladding of 3-4 mm ACP sheet fixed level on wall with necessary hardware & Facia / Front Cladding with 10 to 12 mm Thick PVC Fluted Panel Patta of approved make finished with groove pattern With TOP & Side Edges Covered with Teak Wood Beading Patti as per detailed Drawings and design completed finish as directed by EIC / Architect as per the sample approved by the Architect.	<i>Separate sheet attached.</i>

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Item No.	63	Providing and making PVC planks for FALSE CEILING/wall covering using 8mm thick Panel Size of 250mm Wide x 3000 mm Length with wooden or approved Shade and pattern & including all hardware fixtures and fasteners, S.S. screws, grips & Conrner angles including necessary framework wheerever required and as per design, pattern, shapes and levels specified in detail drawings including cutting for light fixtures. Complete as per architect's instructions & sized specified in detail drawings. Material selection should be as per engineer in charge and architect.	<i>Separate sheet attached.</i>
Item No.	64	shrubby Plantation: Supplying well grown shrub plants of average height 3' to 4' and planting in 300 x 300 x 300 mm size pits by mixing of FYM & existing soil in ration 1:3 with soil, pesticide & insecticide. Plants should be disease free and fungus free in 8" x 10" polythene bag. Plastic bags or pots should be removed carefully and soil around the roots should not be dropped or disturbed much. Bill shall be plaaced after 45 days of plantation of shrubs. Mortality rates to be inclusive. work shall be done as shown in the drawing or as directed and approved by EIC/Architect. The ground coverage should be dense and uniform throughout the planting area.	<i>Separate sheet attached.</i>
Item No.	65	Tree Plantation: supply and planting of tree of specified variety including excavation of pit 600 × 600 x 600 mm depth mixing of FYM & existing soil in ratio 1:3 termite treatment and planting of plants (height 8' x 10" above bags/pots). Soil mounts 4'-8" in size. Tree plantation should be carried on neatly accurately and with perfection as per drawing and instruction given by the ECI. Plastic bags or pots should be removed carefully and soil around the roots should not be dropped or disturbed much. Bill shall be placed after completion of maintainance period but not before stablizing the hedges. Rates for mortality to be inclusive. Providing and fixing tripod made of wooden ball, height 1.50 mtr. Top bracket to be 300 mm x 300 mm leg embedded in ground up to 300 mm and to have tar coat. Work shall be done as shown in the drawing or as directed and approved by ECI.	<i>Separate sheet attached.</i>
Item No.	66	Fibre Pot Container 35x35cm	<i>Separate sheet attached.</i>
Item No.	67	Semi Carpet Lawn as per park and Garden SOR Gandhinagar	<i>Separate sheet attached.</i>
Item No.	68	Providing and fixing bright finish 2 mm thick Stainless steel (Grade 304) letters size up to 350 cm height in English language fixed in wall with screws and nails and any height including scaffolding etc complete as per instruction of Engineer-in-charge.	<i>Separate sheet attached.</i>
Item No.	69	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.	70	Providing & Fixing the Chikenmesh - 20 guage (Crimp Jali) of approved size applying between the RCC and masonry junction in proper line, level and plumb with all material, labour, tools, tackles and equipment. Including providing and fixing the jali with nails, etc complete as directed by the site-in-charge.	<i>Separate sheet attached.</i>
Item No.	71	Providing laying and jointing in true line and level U.P.V.C. Pipe (SCH-40) including fitting make or equivalent as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at everytwo meter C/C or shall be concealed as directed including necessary fitting etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials. (i) 15mm dia.	<i>Separate sheet attached.</i>

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Item No.	72	Providing laying and jointing in true line and level U.P.V.C. Pipe (SCH-40) including fitting make or equivalent as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at everytwo meter C/C or shall be concealed as directed including necessary fitting etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials. (ii) 25mm dia.	<i>Separate sheet attached.</i>
Item No.	73	Providing laying and jointing in true line and level U.P.V.C. Pipe (SCH-40) including fitting of PRINCE/SUPREME/ASTRAL/FINOLEX or equivalent make or as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at everytwo meter C/C or shall be concealed as directed including necessary fitting etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials. (i) 40mm dia.	<i>Separate sheet attached.</i>
Item No.	74	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.	75	Providing and fixing 15 mm dia brass chromium plated screw down bib taps.	<i>Separate sheet attached.</i>
Item No.	76	Providing & Fixing Sergical Bib cock of FLR-5043N of jaquar or Equivalent as directed and complete.	<i>Separate sheet attached.</i>
Item No.	77	Providing & Fixing C.P. Brass angle valve 15mm etc. complete.	<i>Separate sheet attached.</i>
Item No.	78	Providing and fixing brass Cromiam Plated brass half trun Flush cock of approved quality including fixing in pipe line etc Complete. 25mm dia.	<i>Separate sheet attached.</i>
Item No.	79	Providing & fixing gun metal check or non-return full way wheel valve (A)15 mm dia.	<i>Separate sheet attached.</i>
Item No.	80	Providing & fixing gun metal check or non-return full way wheel valve (C)25 mm dia	<i>Separate sheet attached.</i>
Item No.	81	Providing & fixing gun metal check or non-return full way wheel valve (E) 40 mm dia	<i>Separate sheet attached.</i>
Item No.	82	Providing and fixing 600 x 450 mm bevelled edge mirror of superior glass with mounted on 6mm thick A.C sheet or plywood sheet and fixed to wooden plugs with C.P brass screws and washers.	<i>Separate sheet attached.</i>
Item No.	83	Providing & fixing C.P. Brass towel rails complete with C.P. brass brackets fixed to wooden plugs with C.P. brass screws (B) 600 mm x 20 mm size	<i>Separate sheet attached.</i>
Item No.	84	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.	85	Drilling of 215 mm dia. Bore in over burden strata (0-30) including lowering and fixing of 175 mm nominal dia UPVC pipe/175 mm dia ERW pipe upto required depth and further drilling of 165mm dia bore hole in rocky strata by DTH rig.	<i>Separate sheet attached.</i>
Item No.	86	Manufacture, supply and delivery of ISI marked (IS-12818) with latest amendment. c) 175 mm nominal dia. "CS" type	<i>Separate sheet attached.</i>
Item No.	87	Single phase borewell submersible pump motor set MOC: Casing: CI-FG260, Impeller: Bronze & Shaft: SS:410 Category Q-1.2, 20 LPM Discharge, 90 m Head, 1.5 HP	<i>Separate sheet attached.</i>
Item No.	88	Manufacture, supply and delivery of following ISI marked HDPE pipes (IS:4984/1985 with latest amendment) having material Grade PE-80 in approximate 100 meter coil length or as per GWSSB requirement with SS- 316 nipple at both ends having 11 TPI threads as per specifications, press fitted and bolted having nominal diameter as under as per detailed technical specifications. DN 40 mm PN-10	<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.	89	PVC insulated flat submersible cable as per detailed technical specifications of R/C of GWSSB conforming to IS 694, IEC 60227 / 60228. 1 R x 3 C x 2.5 mm2	<i>Separate sheet attached.</i>
Item No.	90	Lifting or Lowering of single phase submersible pump set complete with required length of HDPE pipe & cable in bore well and fitting of control panel board including wiring work and satisfactory testing as per instruction of Engineer-in-charge including carting of material to site. Up to 90 meter depth	<i>Separate sheet attached.</i>
Item No.	91	Honey Comb Brickwork With Common Burnt Clay Building Bricks Having Crushing Strength Not less than 35 Kg / Sqmt (i) In Cement Mortar 1:6 (1 Cement 6 Coarse Sand) etc. Complete .	<i>Separate sheet attached.</i>
Item No.	92	(i) Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 - coarse sand) in foundation and plinth (B) Conventional (upto 10 ton)	<i>Separate sheet attached.</i>
Item No.	93	Providing and fixing to wall, ceiling and floor 10.0 Kg f/cm2 working pressure polythelene pipes of the following outside dia. high density, complete with special flange compression type fittings wall clamps etc. including making good the wall, ceiling and floor 75mm	<i>Separate sheet attached.</i>
Item No.	94	Providing and fixing to wall, ceiling and floor 10.0 Kg f/cm2 working pressure polythelene pipes of the following outside dia. high density, complete with special flange compression type fittings wall clamps etc. including making good the wall, ceiling and floor 110MM	<i>Separate sheet attached.</i>
Item No.	95	Provdg. & fixing on wall face PVC rain water pipe of FINOLEX, SUPREME, KISHAN or PRINCE brand is used incl. filling the joints with spun yarn soaked in neat cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) . PVC pipe 6 Kg/Sqcm. (ii) 110 mm Dia	<i>Separate sheet attached.</i>
Item No.	96	Providing and fixing PVC SWR Nahni Trap IS 14735 for drain with jali of the following nominal diameter of self cleansing design with C.I. Scream down or hinged grating including the cost of cutting and making good the walls. (i) 100 mm dia	<i>Separate sheet attached.</i>
Item No.	97	Providing & Fixing white or coloured glazed China Veterious China Orissa Pattern water closet squatting pan size 580 mm. x 440 mm. including providing and fixing vetrious 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.	98	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 braket, Conceled metropole of jaquar or equivalent, 2 way bibcock of jaquar or equivalent, health foucet 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.	99	provdg. & Fixing urinal of approved quality incl. connection with trap and with integral longitudinal flush pipe. (A) Squating plate pattern white earthenware 550mm x 300mm.	<i>Separate sheet attached.</i>
Item No.	100	Providing and fixing Veterious 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 trap15mm Dia & Waste Pipe 32mm Dia	<i>Separate sheet attached.</i>
Item No.	101	Providing and fixing (600 X 450 X 150 mm) size vitreous china laboratory 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.	102	Providing and fixing in position PVC Cowel vent to pipes (ii) 75 mm. dia	<i>Separate sheet attached.</i>
Item No.	103	Providing and fixing in position PVC Cowel vent to pipes (ii) 110 mm. dia	<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.	104	Const. of brick masonry chamber for under ground inspection chambers & bends with brick having crushing strength not less than 35 Kg. / cm ² in C.M. 1:5 precast S.F.R.C top cover foundation concrete 1:5:10 in side plaster 15 mm thick with C.M. 1:3 finished smooth with floating coat of neat cement on walls & bed concrete, inside dimension 455x 610 mm and 450 mm deep for single pipe line.	<i>Separate sheet attached.</i>
Item No.	105	Providing And Layling Vaccume Dewatering Process Ordinary cement Concrete M-200 & Curing Comp. Including Compaction and Finishing of Cement Concrete Road by Trimix process excluding reinforcement and Including all Material and labour chrges for trimix (Vaccum dewatering Services) Process on Cemnt Concrete road Surface by using Vaccume dewatering pump,floator surface vibrator incl.making groove 5 mm width and filling with polyminte polymer and rough finish to surface per instruction incl.leveilling etc complete.	<i>Separate sheet attached.</i>
Item No.	106	Providing and fixing pre-cast Rubber Dye inter locking concrete block 60mm thick with grade of concrete M200 pneumatic compressed by mechanically pressed and as per approved design including 75mm Sand layer for levelling and filling the joint with sand in proper line and level etc complete.	<i>Separate sheet attached.</i>
		ELECTRIFICATION WORK	
Item No.	107	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.	108	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.	109	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 completeCat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	110	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	111	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.	112	(9) 16 Amp. SP one way switch Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	113	(10) 6/16Amp. Universal socket Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	114	(4) TV Co-axial Socket outlet Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	115	(7) Blank Plate Single Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	116	(8) Computer RJ-45 Cat-III	Specification as per Electric work Booklet Page 1 to 49
Item No.	117	(19) Modular Indicating Call Bell Cat.III	Specification as per Electric work Booklet Page 1 to 49
Item No.	118	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.	119	b) 25 mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	120	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.	121	(3) 25 mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	122	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.	123	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.	124	(1) 75 mm x 50 mm trunking	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.	125	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.	126	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.	127	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
Item No.	128	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.	129	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.	130	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.	131	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.	132	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.	133	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.	134	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.	135	(B) 4 core 6 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	136	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	137	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.	138	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.	139	(B) 2 to 4 core 6 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	140	(E) 2 to 4 core 25 Sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	141	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.	142	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.	143	(A) 1.5/ 2.5/4/6 Sq.mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	144	(C) 16/25 Sq.mm.	Specification as per Electric work Booklet Page 1 to 49
Item No.	145	(F) 95 Sq.mm.	Specification as per Electric work Booklet Page 1 to 49
Item No.	146	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.	147	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.	148	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.	149	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	150	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.	151	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.	152	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
Item No.	153	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.	154	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.	155	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.	156	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.	157	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	158	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.	159	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.	160	providng and erecting Suitable set of CTS for 100A Energy Meter	Specification as per Electric work Booklet Page 1 to 49
Item No.	161	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.	162	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.	163	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.	164	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.	165	(g) One wire 16.00 sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	166	(h) One wire 25.00 sq. mm	Specification as per Electric work Booklet Page 1 to 49
Item No.	167	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.	168	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	169	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.	170	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
Item No.	171	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.	172	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	173	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 resistance 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, Sulphur 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.	174	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	Specification as per Electric work Booklet Page 1 to 49
Item No.	175	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
Item No.	176	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.	177	Supplying & erecting Galvanized M.S pipe post "B" class 88.9 mm O.D 6 mtr. Long duly painted with two coats of aluminium paint complete with metallic base-plate of 300 mm x 300 mm x 4mm thick for using as a compound light pole with approx. weight 47 Kg.	Specification as per Electric work Booklet Page 1 to 49
Item No.	178	Providing and erecting Street Light pole bracket comprising main B Class MS pipe of 4.2 cm/require outside dia. complete with suitable B Class M.S. sleeve tubing of approx. 45cms.length and suitable for 76.5 mm /80mm / required size of pole top having sufficient fasteners for fixing the brackets and having spread of 1.5.mtr. length with 110 deg.with vertical plane & suitable welded stays, reducer and with check nuts complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms.[A] Single Arm Bracket 1.5 Mtr	Specification as per Electric work Booklet Page 1 to 49
Item No.	179	Providing M-20 / 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cms. Deep in below ground level with plinth of 45 cms x 45 cms (or 45 cms dia x 45 cms) high upper ground level with necessary curing and finishing in approved manner. (for 4 & 6 mtr pole)	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.	180	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.	181	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.	182	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
Item No.	183	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.	184	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	185	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.	186	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.	187	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.	188	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.	189	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.	190	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.	191	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
Item No.	192	(c) for 2 ton capacity	Specification as per Electric work Booklet Page 1 to 49
Item No.	193	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.	194	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

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	195	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.	196	Supply, Installation, Testing and Commissioning (SITC) of Silent Type Diesel Generating (DG) Set(s) of prime power rating (kVA) as specified, complete as a packaged system, conforming to CPCB IV+ (or better) emission norms, and complying with all applicable statutory requirements, codes and standards including (but not limited to) IS 4722:1968, IS 13364 (Part 2) and BS 5514 (latest editions/amendments). The DG set shall be suitable for 415 V \pm 10%, 50 Hz \pm 5%, 3-phase, 4-wire operation at 0.8 lagging power factor, 1500 RPM, for tropical conditions, and shall be capable of delivering 10% overload for one (1) hour after twelve (12) hours of continuous operation (ISO 8528), unless otherwise stated by the OEM. The scope shall include complete accessories, interconnections, foundations/anti-vibration arrangements, exhaust system, acoustic enclosure, earthing (as required), consumables for first commissioning, and all works necessary to render the installation fully functional and compliant, as directed by the Engineer-in-Charge (EIC). Factory testing shall be carried out with fuel and load bank at 0.8 power factor and the DG set shall be offered for inspection prior to dispatch. The DG set shall be provided with a durable QR code/label fixed on the enclosure/control panel, linking to a document repository containing (as a minimum) approved GA drawings, wiring diagrams, foundation and installation details, OEM catalogues, operating & maintenance manuals, factory test reports, type test certificates (where applicable), warranty certificate, geo-tag of manufacturing location, and rating plate data as per relevant IS/BS/ISO requirements. The OEM/Contractor shall provide a Remote Monitoring System (RMS) with minimum one (1) year connectivity (SIM/data plan/server access as applicable), including dashboard access, user ID/password, and data download facility. RMS shall, at minimum, capture and report: DG status (Auto/Manual/Off), start/stop events, kW/kVA/kVAR, V/I/Hz, PF, run hours, fuel level, battery voltage, alarms/trips with time stamp, and GPS/location (where supported). All licences/subscriptions required for the stated period shall be included in the quoted price.	Specification as per Electric work Booklet Page 1 to 49
Item No.	197	0.00	Specification as per Electric work Booklet Page 1 to 49
Item No.	198	0.00	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.	199	<p>(A) Diesel Engine: Turbocharged, 4-stroke, water-cooled, multi-cylinder diesel engine, suitably rated for the specified DG set prime rating at site conditions, complete with dynamically balanced flywheel, heavy-duty engine mounting, and electric starting arrangement. The engine governing shall be electronic (isochronous/droop as per OEM standard) and shall comply with ISO 8528/BS 5514 requirements for steady-state speed regulation. Engine shall be complete with dry type air cleaner with restriction indicator, lube oil cooler (if required), radiator/cooling package (as applicable), and all sensors/switches required for protections and annunciation. The engine shall be capable of 10% overload for one (1) hour after twelve (12) hours continuous operation and shall be suitable for continuous duty under tropical ambient conditions. The offered engine model shall be CPCB IV+ compliant and shall be supplied with complete emission control/after-treatment system (including DEF/urea dosing where applicable) along with all accessories, tanks, pumps, heaters and controls required for compliant operation. The supply shall include first fill of lubricating oil, coolant and consumables required for initial commissioning and testing. All fasteners, couplings, guards, hoses and standard/recommended accessories required for safe and reliable operation shall be included and shall be subject to inspection/approval by the EIC.</p> <p>(B) Engine-Mounted Instrumentation/Control Panel: Engine-mounted instrument/control panel shall be microprocessor based, with LCD/LED display, event log and alarm/trip annunciation, complete with all wiring, harnesses and terminations. Indications/protections shall include (minimum) the following and any additional protections recommended by the OEM: (i) Start/Stop key switch and/or push buttons with emergency stop; (ii) Output breaker: suitably rated 4-pole ACB/MCCB/MCB as applicable, with minimum 25 kA rupturing capacity (or as per fault level at site, whichever is higher), with shunt trip where required; (iii) Jacket water/coolant temperature – indication and high temperature alarm/trip; (iv) Lube oil pressure – indication and low pressure alarm/trip; (v) Lube oil temperature (where provided) – indication/alarm; (vi) Battery charging indication, battery voltage indication and</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	200	0.00	Specification as per Electric work Booklet Page 1 to 49
Item No.	201	0.00	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.	202	<p>(C) Alternator: Synchronous, brushless alternator of appropriate kVA rating, 415 V, 3-phase, 50 Hz, 1500 RPM, 0.8 lagging PF, continuous duty, dynamically balanced rotor, self-cooled, self-excited and AVR regulated. Enclosure shall be SPDP, minimum IP23. Insulation shall be Class H with suitable tropicalization; temperature rise shall be within limits of the applicable standard. The alternator shall comply with IS 13364 (Part 2), IS 4722 and/or BS 2613 (latest), as applicable. Voltage regulation with AVR shall be within $\pm 1.0\%$ (steady state) or OEM standard whichever is better. The alternator shall be capable of 10% overload for one (1) hour after twelve (12) hours of continuous operation. Harmonic distortion shall be suitable for non-linear loads; alternator shall be equipped with appropriate AVR features (e.g., soft start, UFRO) and shall be suitable for motor starting duties typical to the installation. Terminals shall be brought out to a terminal box with adequate space for termination and shall include earthing terminals. All routine/type test certificates (as applicable) shall be submitted for acceptance.</p> <p>(D) Base Frame & Foundation: Engine and alternator shall be mounted on a suitably designed, fabricated MS channel base frame with stiffeners, lifting arrangement and coupling guard, duly painted/treated for corrosion protection. The set shall be installed on an adequately designed cement concrete foundation/pedestal with anchor bolts, pockets, grouting and anti-vibration mounts (AVMs) / spring isolators as per OEM recommendations and site conditions. Vibration levels shall be within OEM permissible limits. The contractor shall be responsible for alignment, levelling, tightening torque and re-check after load trial, complete in all respects.</p> <p>(E) Fuel Tank: In-built/base fuel tank fabricated from minimum 3 mm thick MS sheet, duly leak-tested, complete with filling arrangement, vent, drain, cleaning opening, level indication and isolation valve(s). The capacity shall be adequate for minimum eight (8) hours continuous operation at full load. Fuel piping between tank and engine shall be MS 'C' class pipes of suitable diameter with compatible flexible connections (where required), complete with all valves, clamps, supports, unions and fittings. Any additional safety provisions required</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.	203	<p>(G) Starting System: 12 V / 24 V DC electric starting system (as per OEM design) comprising starter motor(s), battery charger/alternator charging arrangement, relays, cabling and terminals, complete with maintenance-free batteries of suitable Ah capacity to ensure minimum three (3) consecutive cranking attempts. System shall include battery isolator and indication of charging healthy/failure. All battery interconnections shall be with crimped lugs, insulated sleeves and proper supports, complete in all respects.</p> <p>(H) Acoustic and Weatherproof Enclosure: Acoustic enclosure shall be factory-fabricated, weatherproof and corrosion protected, suitable for outdoor installation, with minimum IP65 protection (or better) for the enclosure body. Enclosure design shall provide adequate fresh air intake and hot air discharge for engine radiator and alternator cooling such that the internal temperature rise remains within OEM limits at full load. Provision shall be made for safe access/maintenance including lockable doors, viewing window (where provided), emergency stop access, and cable entry glands. Noise level of the complete DG set with enclosure shall not exceed 75 dB(A) measured at 1.0 m distance in free field conditions, in accordance with applicable CPCB requirements. The enclosure shall comply with CPCB IV+ (or better) requirements and other applicable local rules/regulations. All louvers, acoustic infill/insulation, fasteners and sealing arrangements shall be of fire-retardant/industrial grade as per OEM standard. Any deviation from the specified noise/IP requirements shall be treated as non-compliance unless explicitly approved by the EIC in writing.</p> <p>Erection, testing, commissioning and satisfactory performance demonstration shall be carried out as per site requirements and as directed by the Engineer-in-Charge. The scope shall include pre-commissioning checks, insulation resistance tests, no-load and load trials, safety/protection checks, and performance test on load bank (where directed) with submission of test records. The contractor shall provide initial consumables including first fill of diesel fuel (minimum up to 80% of fuel tank capacity), lubricating oil, coolant, etc. required for commissioning and the specified tests. The bidder/OEM shall provide</p>	Specification as per Electric work Booklet Page 1 to 49
Item No.	204	Note: The DG set specifications shall comply with the latest CPCB guidelines/notifications and all applicable local rules/regulations prevailing as on the last date of tender submission applicable local rules/regulations prevailing as on the last date of tender submission	Specification as per Electric work Booklet Page 1 to 49
Item No.	205	(K) Continuous rating of 82.5 KVA ,BHP not less than 102 BHP	Specification as per Electric work Booklet Page 1 to 49
Item No.	206	<p>Providing & erecting approved make ATS panel suitable for following size of 3 phase, 415 V., 50 Hz, A.C. diesel generating set complete of scope as detailed below:</p> <p>1) Power module: Motorised Changeover switch with ATS controller, Auxiliary contactor with NO & NC contacts with Automatic Battery Charger, indicating lamps for Generator ON, Mains ON, Load and suitable control terminals and power terminals with neutral earthing studs.(D) ATS Panel for 75 kVA/82.5 KVA3 phase DG Set</p>	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.	#REF!	#REF!	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.	#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.	#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.	#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.	#REF!	#REF!	Specification as per Electric work Booklet Page 1 to 49
		Fire Safety Works	
Item No.	216	Providing Erecting and Fixing Double coated PVC isi mark water tank of required capacity each with all naccessary fittings & Connection etc.	<i>Separate sheet attached.</i>
Item No.	217	Making holes up to 50mm dia 300mm long in only RCC chamber by diamond core cutting machine of HILTI or Equivalent including disposing the debries etc. completed as directed by E.T.C	<i>Separate sheet attached.</i>
Item No.	218	Making holes up to 100mm dia 300mm long in only RCC chamber by diamond core cutting machine of HILTI or Equivalent including disposing the debries etc. completed as directed by E.T.C	<i>Separate sheet attached.</i>
Item No.	219	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe (SCH 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concelled 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>
		Fire Work	
Item No.	221	Providing and fixing of Glycerin filed burdon type pressure gauge, 100 mm dial and 0-14 kg range with calibration certificate.	<i>Separate sheet attached.</i>
Item No.	222	Providing , fixing, testing and commissioning of 25 mm ball valve of sizes.	<i>Separate sheet attached.</i>
Item No.	222	Providing & fixing pressure switch assembly with isolation valve suitable for working pressure of 10 bar. Cost shall be inclusive of providing any short pieces, nipples, elbows etc as required.	<i>Separate sheet attached.</i>
Item No.	223	Supplying, installing, testing and commissioning of .C.I. Dual Plate Non- return valves with required flanges, nuts, G.I bolts and gaskets etc. complete. (PN 16 Rated.). 100 mm dia.	<i>Separate sheet attached.</i>
Item No.	224	Providing and Fixing of hand lever operated butter fly PN: 1.6, with CI body and D.I disc and other working parts as per IS: 13095 - 1991. With required accessories like matching flange, packings etc.complete as required. 100 mm dia	<i>Separate sheet attached.</i>
Item No.	225	Providing and Fixing of hand lever operated butter fly PN: 1.6, with CI body and D.I disc and other working parts as per IS: 13095 - 1991. With required accessories like matching flange, packings etc.complete as required. 80 mm dia	<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.	226	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 100 mm	<i>Separate sheet attached.</i>
Item No.	227	80 mm dia	<i>Separate sheet attached.</i>
Item No.	228	65mm dia	<i>Separate sheet attached.</i>
Item No.	229	25mm dia	<i>Separate sheet attached.</i>
Item No.	230	15mm dia	<i>Separate sheet attached.</i>
Item No.	231	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	<i>Separate sheet attached.</i>
Item No.	232	Providing and fixing of flange ended Foot Valve PN 16.	<i>Separate sheet attached.</i>
Item No.	233	MS Structural supprotts fabircated with MS / GI Angles, tubes, pipes etc.as required for the panels, battery & fuel tank etc.	<i>Separate sheet attached.</i>
Item No.	234	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required :(10.1) Single headed Gunmetal	<i>Separate sheet attached.</i>
Item No.	235	Supplying installing , testing and commissioning of reinforced rubber lined RRL fire hose of 63mm diameter 15 m length as per IS 636 binded with one set of male and female instantaneous ss coupling	<i>Separate sheet attached.</i>
Item No.	236	Supplying Installing , testing and commissioning of SS branch pipe size of 63mm diameter x 19mm diameter	<i>Separate sheet attached.</i>
Item No.	237	Providing and fixing Hose Box lockable cabinet, having central opening and 4 mm thick glazed glass doors (Two nos.); housing 2 no's x 15 m long fire hose (IS:636 Type A) and one no. of branch pipe; suitably marked on the outside with the letters "FIRE HOSE" including necessary locking arrangement and shall be painted with one coat of primer and two coats of synthetic enamel paint of approved shade.(Internal)	<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.	238	Supply, fixing, testing & commissioning of 20 mm bore and 30 meter long hose and hose reel suitable for 10 Kg/sqcm operating pressure for first aid fire fighting conforming to IS : 884, with 180o full swing drum, fixing brackets, 5 mm dia shut off Stainless steel nozzle, connecting directly from the riser through 40 mm dia. MS (Class C) pipe with sockets, elbows, nipples, 40x20 mm reducer, 20 dia pipe, 20 mm dia. hand lever operated isolating ball valve, etc. including providing operating	<i>Separate sheet attached.</i>
Item No.	239	SITC of 25mm dia Gun Metal Air Vent Valves with 25 mm dia. Ball valve and other required accessories like nipple, socket etc	<i>Separate sheet attached.</i>
Item No.	240	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.	<i>Separate sheet attached.</i>
Item No.	241	Providing & fixing of fire brigade connection made from SS (suction collecting head) consisting of 2 Nos. 63 mm dia instantaneous type male couplings with built-in check valves, drain valve 1 No. with flanged outlet complete with bolts, nuts and rubber insertions as required and as per IS:904-1963.	<i>Separate sheet attached.</i>
Item No.	242	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	<i>Separate sheet attached.</i>
Item No.	243	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	<i>Separate sheet attached.</i>
Item No.	244	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)	<i>Separate sheet attached.</i>
Item No.	245	Charges for liasoning with CFO and getting all approvals and permissions & NOC 's required for fire fighting at various stages & after completion of the project.(All official and receipted paymentswould be submitted and Reembursed)	<i>Separate sheet attached.</i>
Item No.	246	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	<i>Separate sheet attached.</i>
Item No.	247	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)	<i>Separate sheet attached.</i>
Item No.	248	Providing, fixing, testing and commissioning of Auto Glow Signages patta For Wall and Flooring, (2" Wide)	<i>Separate sheet attached.</i>
Item No.	249	Supplying installing testing and commissioning electrically driven terrace pump of capacity 900 lpm, at 35 mtr head with all the necessary accessories viz., pressure gauges etc., operating on 3ph 50 hz, 400/440V ac supply including foundation, bolt etc., and complete control panel.	<i>Separate sheet attached.</i>
Item No.	250	Supply and Installation of cast iron body dual check plate type NRV (non return valve) conf. to IS: 5312 PN-16, flang eend as per ANSI B 16.5, 150#, SORF, Serrated finish flanged end. i)100mm Dia	<i>Separate sheet attached.</i>
		Fire Ele. Work	

Tende Item No.		Item in Schedule-B of the Tender	Sr.No. of Applicable Specification of booklet
1		2	3
Item No.	251	Supplying, laying, testing & commissioning of FRLS, PVC outer sheath, steel armoured copper conductor, 1100v grade power cables with double compression glands etc.The cables shall be laid in tray / Hume pipe / in trenches/on walls/ floor etc. as required. For cables laid out door the rate shall include earth excavation providing brick and sand protection, refilling and compacting the earth.The rate shall excludes tray & Hume pipes.The minimum size of the cables shall as mentioned below:	<i>Separate sheet attached.</i>
Item No.	252	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.	<i>Separate sheet attached.</i>
Item No.	253	supply and installation of 8" x 8 " MS Junction Box.	<i>Separate sheet attached.</i>
Item No.	254	Supply, installation, testing and commissioning of 12V 7AH batteries.	<i>Separate sheet attached.</i>
Item No.	255	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.	<i>Separate sheet attached.</i>
Item No.	256	Providing & Erection cable for fire alarm system 2 Core X 1.5 sqmm FRLS armoured copper Cable	<i>Separate sheet attached.</i>
Item No.	257	Supply, installation, testing and commissioning of Intelligent Integrated Loopbased Sounder with Beacon - compatible with existing panel.	<i>Separate sheet attached.</i>
Item No.	258	Microprocessor based intelligent ,analogue addressable type fire alarm control panel with LCD display, four access levels, event historical logging, flash EPROM sufficient numbers of programmable relay controls, 240 volts AC power supply, automatic battery charger, including all necessary software for programming of fire alarm system with 100% redundancy to ensure operation even in case of single component breakdown. The job includes supply, installation, testing and commissioning of entir system. 4 Loop.	<i>Separate sheet attached.</i>
Item No.	259	Loop Mounted Isolator - compatible with existing panel	<i>Separate sheet attached.</i>
Item No.	260	Supply, Installation, Testing and Commissioning of Addressable Monitor module compatible with existing panel.	<i>Separate sheet attached.</i>
Item No.	261	Supplying and erecting push button operated fully automatic Star-Delta starter with 3 Nos. of 15A.rating contactors and directly operated thermal overload relay having 10-21A range and erected in sheet steel enclosure for 3 phase 415V. 50 c/s. A.C. motors from 7.5 to 15H.P. complete erected on (a) P.W. Block with necessary connection. Cat.III	<i>Separate sheet attached.</i>
Item No.	262	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)	<i>Separate sheet attached.</i>
Item No.	263	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	<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.	264	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. Cat-iii	<i>Separate sheet attached.</i>
Item No.	265	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A.with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S.housing Cat-iii	<i>Separate sheet attached.</i>
		Furniture & interior Work	
Item No.	266	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·	<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.	267	<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>	<i>Separate sheet attached.</i>
Item No.	268	<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>	<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.	269	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.	<i>Separate sheet attached.</i>
Item No.	270	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 retardant, 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.	<i>Separate sheet attached.</i>
Item No.	271	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	<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.	272	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.	<i>Separate sheet attached.</i>
Item No.	273	Supplying of Dust bin of approved brand Sintex or equivalent (as per photographs) of 100 Liter Capacity	<i>Separate sheet attached.</i>
Item No.	274	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 polyster 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.	<i>Separate sheet attached.</i>
Item No.	275	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.	<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.	276	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.	<i>Separate sheet attached.</i>
Item No.	277	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.	<i>Separate sheet attached.</i>
Item No.	278	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.	<i>Separate sheet attached.</i>
Item No.	279	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.	<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.	280	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.	<i>Separate sheet attached.</i>
Item No.	281	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)	<i>Separate sheet attached.</i>
Item No.	282	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.	<i>Separate sheet attached.</i>
Item No.	283	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.	<i>Separate sheet attached.</i>
Item No.	284	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.	<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.	285	<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 accessories 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 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>	<i>Separate sheet attached.</i>
Item No.	286	<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>	<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.	287	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.	<i>Separate sheet attached.</i>
Item No.	288	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.	<i>Separate sheet attached.</i>
Item No.	289	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.	<i>Separate sheet attached.</i>
Item No.	290	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.	291	<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.	292	<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.	293	<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.	294	<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 foting 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>	<i>Separate sheet attached.</i>
Item No.	295	<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.	296	<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.	297	<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.	298	<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.	299	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 sticked on MDF as selected by engineer-in-charge including all necessary fixture, fasteners,labour , material etc comp.	<i>Separate sheet attached.</i>
Item No.	300	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.	301	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.	302	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.	303	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.	304	<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.	305	<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.	306	<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.	307	<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.	308	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	<i>Separate sheet attached.</i>
		MGPS Works	
Item No.	309	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 28mm OD X 0.9mm thick	<i>Separate sheet attached.</i>
Item No.	310	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 22mm OD X 0.9mm thick	<i>Separate sheet attached.</i>
Item No.	311	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 15mm OD X 0.7mm thick	<i>Separate sheet attached.</i>
Item No.	312	Medical Grade Copper Pipe Kite marked : as per tender technical specifications 12mm OD X 0.6mm thick	<i>Separate sheet attached.</i>
Item No.	313	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.	314	Matching Probe/adopter As per tender technical specifications. a. Oxygen	<i>Separate sheet attached.</i>
Item No.	315	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.	316	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.	317	Isolation Lockable line valves with stub fittings :As per technical specifications. 15mm	<i>Separate sheet attached.</i>
Item No.	318	Isolation Lockable line valves with stub fittings :As per technical specifications. 22 mm	<i>Separate sheet attached.</i>
Item No.	319	Isolation Lockable line valves with stub fittings :As per technical specifications. 28 mm	<i>Separate sheet attached.</i>
Item No.	320	5x5 Oxygen Cylinder Manifold system with header	<i>Separate sheet attached.</i>
Item No.	321	High flow piston Regulator IS/ ISO 7396 IS/ISO 10524-2 -2016 , IS/ISO 10524-4:2008 HTM 02-01 Class II b MDR 2017/745	<i>Separate sheet attached.</i>
<p>Note :-</p> <p>The description of the item in the specifications booklet is in short and it will be stated as per Schedule-B.</p> <p>The testing charges @ 1% will be recovered from the bill of the tender</p> <p>Singnature of Contractor</p> <p style="text-align: center;">Deputy Executive Engineer Project Implementation Unit Zone-6 Dahod</p> <p style="text-align: right;">Executive Engineer Project Implementation Unit Zone-6 DAHOD</p>			