

बिहार राज्य शैक्षणिक आधारभूत संरचना विकास निगम लि०

BIHAR STATE EDUCATIONAL INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

(A Govt. of Bihar Undertaking)

ISO 9001; 14001; OHSAS 18001

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दर आमंत्रण सूचना-08 वर्ष-2021-22

निबंधित संवेदको/ख्याति प्राप्त फर्मो/कंपनियों/आपूर्तिकर्ताओं से दिनांक-19.02.2022 के अपराहन 03:00 बजे तक राज्य के विभिन्न जिलान्तर्गत विभिन्न निर्माण कार्यों में प्रयोग हेतु **Part A-Furniture works**, **Part B-Air Conditioning**, **Part C-Pre-fab Work**, **Part D-Interior Work**, **Part E-Smart Class Solution**, **Part F-IT Product**, **Part G- Game Equipment**, **Part H- Lift Work**, **Part I-Electric Panel**, एवं **Part J-PHE Works** की आपूर्ति हेतु गैर अनुसूचित मदों की आपूर्ति एवं अधिष्ठापन के लिए विभिन्न मदों हेतु मुहरबंद कोटेशन अधीक्षण अभियंता, बिहार राज्य शैक्षणिक आधारभूत संरचना विकास निगम, पटना के कार्यालय में समर्पित करना अनिवार्य है एवं उसी दिन अर्थात् दिनांक-19.02.2022 के अपराहन 03:30 बजे कोटेशनदाताओं या उनके अधिकृत प्रतिनिधियों के समक्ष समर्पित कोटेशन खोला जाएगा।

Part A-Furniture works					
Sl. No.	Description of items	Qty	Unit	Rate In Digits	Rate In Words
1	Supplying & Installing of 3 Seater Class Room Desk cum Bench combines the elegance of wood with the strength of steel. Its ergonomically designed to minimize fatigue. This three seater model is best suited for schools and colleges. Dimension-1500 x 895 x 750(Appx) Desk panel Seat, Back-The panels are made from 18 mm thk Pre Laminated Boards with PVC edge banding on all sides, Understructure-Made of 25.4 x 25.4 mm x1.2 mm thick powder coated ERW tubes at base which are welded to the desk and seat supports that are made of 1.0 mm thk powder coated MS 'C' sections Stiffeners tat are provided between the 2 vertical frames at base and back of seat are made from 25.4 x25.4 x1.2 mm thk powder coated ERW tubes. The tubes are closed with plastic caps. Additional horizontal supports of 1.5 mm thk powder coated MS 'C' sections are placed below the desk and seat to add to the rigidity of the structure. The storage shelf is made from 0.8 mm thk powder coated MS sheet which is affixed below the desktop Hooks are provided on either sides of the vertical frame of the desk, for hanging bags/bottles They are made from 6.0 mm dia MS rods. Level adjustors are provided to take care of unevenness in floor, complete in all respect of perference make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
2	Supplying & Installing of 2 Seater Class Room Desk cum Bench combines the elegance of wood with the strength of steel. Its ergonomically designed to minimize fatigue. This two seater model is best suited for schools and colleges. Dimension-900 x 895 x 750(Appx) Desk panel Seat, Back-The panels are made from 18 mm thick Pre Laminated Boards with PVC edge banding on all sides, Understructure-Made of 25.4 x 25.4 mm x1.2 mm thk powder coated ERW tubes at base which are welded to the desk and seat supports that are made of 1.0 mm thk powder coated MS 'C' sections Stiffeners tat are provided between the 2 vertical	1	Each		

	frames at base and back of seat are made from 25.4 x25.4 x1.2 mm thk powder coated ERW tubes. The tubes are closed with plastic caps. Additional horizontal supports of 1.5 mm thk powder coated MS 'C' sections are placed below the desk and seat to add to the rigidity of the structure. The storage shelf is made from 0.8 mm thk powder coated MS sheet which is affixed below the desktop Hooks are provided on either sides of the vertical frame of the desk, for hanging bags/bottles They are made from 6.0 mm dia MS rods. Level adjustors are provided to take care of unevenness in floor, complete in all respect of perference make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.				
3	Supplying & Installing of Student Wooden Chair: Student/Training Room chair with folding writing pad, powder coated pipe frame, wooden seat back shell make (GODREJ / METHODEX / DURIAN / JUARI) all complete job as per direction of E/I.	1	Each		
4	Supplying & Installing of Chair - Office chair with cantilever type frame made of dia. 2.54 cm x 14 BG thick M.S.ERW tube and powder coated without arm. Seat/Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. Back size - 38.1 cm (W) x 42.4 cm (D). The under structure assembly is a cantilever type frame made of dia 2.54 cm x 14 BG thick M.S.ERW tube and powder coated, complete in all respect ct perference make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
5	Supplying & Installing of Table made of MS ERW round tube dia 25.4 x 1.2 mm thick with 25 mm thick Pre4 Laminated top size 900 x 590 x 750 with one drawer unit made of 0.5 mm thick CRCA sheet mild steel, all steel components have powder coated paint fitted with lock, complete in all respect of perference make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
6	Supplying & Installing of Table made of MS ERW round tube dia 25.4 x 1.2mm thick with 25mm thick Pre Laminated top size1200 x 600 mm with one side three drawer unt made of .5mm thick CIRCA sheet mild steel, All steel components have powder coated paint fitted with lock, complete in all respect of perference make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
7	Supplying & Installing of Mid Back Chair with seat and back are made up of 1.2 cm thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47 0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m3 and Hardness = 20 +1- 2 at 25% compression 3) ARMRESTS The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM, PNEUATIC HEIGHT ADJUSTMENT, complete in all respect of perference make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		

8	Supplying & Installing of Table Dimension- 1800 x 900 x 740 made of Worktop- 25 mm Thick PLB Tops with 2mm Thick PVC Edge Beading, Understructure C - Frames 1.6 mm thick M.S CFrame Supporting the Top., Legs- Dia. 38.1 x 1.6 mm thick M.S ERW tube, complete in all respect of performance make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
9	Supplying & Installing of Laboratory Table of size 1600 x 910 mm with main Storage unit with cam lock: 900 mm D, 880 mm W with two shutters & One drawer, add one storage sink unit with cam Lock: 900 mm (W) x 355 mm (D), 3 Way Faucet Bench Mounted 3 way water fittings "Swing Gooseneck", complete in all respect of performance make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
10	Supplying & Installing of Steel Whatnot of size 2'6" x 36" x 18" with three shelves made of slotted angle Prime quality CRC sheet conforming to IS 513D/10748/5986. The pitches of the slots at 19.05mm, Panels/Shelves 6 Bend bending process of 905(L) x 448(D) of load capacity 80 Kgs. UDL Max. per shelf All fasteners of electro perk arised as per IS . 3655 -1985 Painting All Steel components of powder coated, complete in all respect of performance make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
11	Supplying & Installing of Steel Storwel Plain with Four Shelves Almirah of size 1980 x 916 x 486 MM multi bend construction and inter locking design and full length over apping doors and sides. Three-way bolting mechanism. Spot welding & CO2 weldipg. Anticorrosion treated components, oven baked powder coating process. Material thickness 0 9mm Top, Bottom.LH & RH sides and back material thickness - 0.9 mm, removable RH & LH main door with stiffeners materials thickness - 0.9 mm, 4 adjustable shelves of thickness - 0.8 mm, complete in all respect of performance make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
12	Providing and fixing Soft Board/Notice Board of size 1200 x 900 mm, complete in all respect of performance make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge.	1	Each		
13	Supplying & Installing of Dry - erase markers and easily cleaned Green / White Board of size 122 cm x 122 cm x 5 cm fixed on wall at proper height with clip, bracket & screws / toggle bolt make (GODREJ / METHODEX / DURIAN / JUARI) as per direction of Engineer-in-charge..	1	Each		
14	Supplying & Installing of Sofa Set(3+1+1) Sofa Set made up of Microfibre with Polyester Laminate upholstery Frame Material :- Kiln dried wood Seat Foam : Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density : 34 kg/ cubic m. Back Foam : Slab stock foam with recron fill at back and arms Foam Density : 34 kg/cubic m Webbing Material : S- spring along with nylon strips Dimension of Single Seater Sofa-1111W x 935D x 890H mm & Dimension of Three Seater Sofa-2111W x 935D x 890H mm make (GODREJ / METHODEX / DURIAN / JUARI) do do all complete job as per direction of E/I.	1	Each		

15	Supplying & Installing of Sofa Set(3+1+1): Sofa Set made up of EPU Upholstry of 1 mm thickness, Dried Solid wood having moisture content of 10-12%, thickness of wood used 10mm, foam material solid stack of density 26 kg/Cum at seat & back, webbing material S spring + nylon having swivel mechanism in one seater for smooth 360 degree rotation. (GODREJ / METHODEX / DURIAN / JUARI) do do all complete job as per direction of E/I.	1	Each		
16	Supplying & Installing of 2 Door Wardrobe Overall Size including top : Width - 960.0 mm Depth - 590 mm Height - 1941.0 mm, Material : Body panels are made of 18 mm thick Prelaminated Particle Board All the exposed edges are edge banded with 0.8 mm thick PVC edge banding. Door are made of 18 mm thick Prelaminated Particle board with all the exposed edges are edge banded with 0.8 mm thick PVC edge banding and with imported H.D.F. foil wrapped decorative trim fixed on to it. Drawer components are made of 18 mm thick Prelaminated Particle Board .All the exposed edges are edge banded with 0.8 mm thick PVC edge banding. Body back and drawer bottom are made of 8 mm thick Prelaminated particle board. Top cornice is made of imported H.D.F. foil wrapped decorative Trim. Hardware : The high quality hardware used like Roller slides, Hinges , minifix, wooden dowels is of make Hettich.. Lock used for middle door is 3 way lock. Lock used for right hand door and drawer is cam lock Construction : Knock Down construction. Finish :. 18 mm thick Prelaminated Particle Board is in Maple shade (GODREJ / METHODEX / DURIAN / JUARI) do do all complete job as per direction of E/I.	1	Each		
17	Supplying & Installing of king size Bed sheet with 2 no. of Pillows all complete job (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
18	Supplying & Installing of CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
19	Supplying & Installing of Visitor Chair with Cantilever type frame made of dia 2.54cm x 14 BG thick M.S.ERW tube and coated without arm. Seat/Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. BACK SIZE-38.1 cm (W) X 42.4 cm (D). The seat should be extra thick foam on front edge to give comfort to popliteal area (Make- Godrej/Durian /Zuari/Methodex) as per direction of E/I	1	Each		
20	Supplying & Installing of Stool with 300 mm dia made of 1.00 mm thick CR Steel dully welded to the understructure and powder coated (DFT 40-60 microns) painting. UNDERSTRUCTURE should be made of MS ERW tube (22 mm dia). All MS section should be powder coated in approved colour (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		

21	Supplying & Installing of Sliding Door Unit,, Dimension- 900 mm (W) x 450 mm (D) (1830 mm H), Construction & Material -Rigid Knock down construction, Prime Quality CRCA Steel – 0.8 mm thick. Sliding Door Arrangement -Sliding Door with top hanging arrangement to prevent derailment. Each door provided with 2 Plastic roller having steel ball bearing for smooth movement of door & less noise. Unit should have Glass door for visibility of the content. Locking & handle - Snap on type aesthetically appealing die cast 5 Lever Cam lock for safe locking, Plastic flush & recessed handle Shelving - Height wise Adjustable Shelf Mounting, Uniformly Distributed Load Capacity per each full shelf is 80 kg approx & for half shelf it is 40 kg with Epoxy Polyester Powder coated to the thickness of 50 microns (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
22	Supplying & Installing of Chair with Cushion chair on tubular frame with arm cantilever type made of dia 2.5cm X 14BG MS ERW round Tube with black powder coated paint and Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. Seat height 43cm, back height 80 cm (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
23	Supplying & Installing of Single sheet bed of standard ayush semi fowler Bed of Size 2265Lx900Wx610Hmm with 2 Section Mattress 100mm. Godrej /Durian/Zuari/Methodex as per direction of E/I	1	Each		
24	Supplying & Installing of Single Bed Structure consist of metal frames made of M.S. Channels in 1.0mm Thickness. Horizontal plinths and bottom plinth are made of 25 mm thick prelaminated particle Board Head board is made of 18 mm thick prelaminated particle board with imported H.D.F. foil wrapped decorative trims fixed to it. Tail board is made of 18 mm thick prelaminated particle board with imported H.D.F. foil wrapped decorative trims fixed to it. Side rail is made of 18 mm thick prelaminated particle board with imported H.D.F.foil wrapped decorative trims fixed on to it. Mattress panels of Bed are made of 18 mm thick prelaminated particle board with all the exposed edges are edge banded with 0.8 mm thick PVC edge banding. Dimension Over all 1131wX 2030l X930h, Bed stead 916w X1980l X406h (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
25	Supplying & Installing of Study Table with Desk Panel are made of 18mm thick pre-laminated Board with PVC edge banding on all sides. Understructuremade of Dia 19.05x1.25 mm thick powder coated ERW at base.the Storage Shelf is made from 0.6 mm thick..Size of Table (600Wx400Dx740H) (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
26	Supplying & Installing of CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		

27	Supplying & Installing of King Bed of size - Length - 2056.0 mm, Width - 1876.0 mm, Height - 930.0 mm. Material- Bed Structure consist of metal frames made of M.S. 25 mm square Pipes in 1.2 mm Thickness & M.S. Channels in 1.0 mm thickness. Partition panels & Plinths are made of 25 mm Thick Prelaminated Particle Board. Head board is made of 25 mm thick P.V.C. membrane pressed MDF. Tail board is made of 18 mm thick Prelaminated Particle board with imported H.D.F. foil wrapped decorative trims fixed on to it. Side board, mattress panels, bottom panels of Bed are made of 18 mm thick Prelaminated Particle Board with all the exposed edges edge banded with 0.8 mm thick PVC edge banding. Finish- PVC membrane pressed MDF of Head Board is in Lime Oak finish. 18 mm thick Prelaminated Particle Board is in Maple shade. Metal frames are powder coated in shade Metallic Silver Grey to thickness of 50 microns(+/-10). (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
28	Supplying & Installing of Modular Kitchen Galvanized Steel wall Storage of size 600 x 695 x381 mm with Hinge Door (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
29	Supplying & Installing of Central Table with Glazed top of 1100mmWx600mmDx500mmH made up to 8mm tempered glass top 6mm tempered bottom glass for storage option,Silwar powder coated understructure,glass attached by UV disc (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
30	Supplying & Installing of Dining Table set with Glazed top with size-1600mm(L)x900mm(W)x750mm(H) with 6 no. Armless Dining Chair with size-430mm(W)x985mm(H)x430mm(D) (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
31	Supplying ,fitting & Fixing of Reception Table Double Arch with DL Top of size 2410 x 1065 x 725-Worksurface, 1035-Counter, D L Top Top-Clean matt PU finish 18mm thick Inside radius 700.0 Mm Outside radius - 1350.0 mm Depth - 650 mm Glass-Frosted Glass 10mm thick Diamond cut finishing on edges Inside Radius - 1202.5mm Outside radius - 1402.5mm Depth - 200mm, Modesty Panel-MS Perforated sheet Below Worksurface : 0.8 mm (thick) x 665.0 mm (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 (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
32	Supplying ,fitting & Fixing of Nano Perch three seater chair Cross Beam- made of MS ERW rectangular black powder coated Tube of 80 x 40 x 2 mm Leg & arm rest chrome plated made of cold rolled steel. Arm rest & leg assembled to the cross beam with M10 x 100 mm bolts. Seat & back 1.6mm thick powder coated perforated shell of cold rolled MS Sheet. Side Bar of chrome plated solid steel 30 x 12 mm (DIN 174) with flunting & plastic insert .The shell is assembled on the cross beam with help of M8 Bolts The overall dimension is 1608mm (L) x 695mm (H) x 555mm (D), Seat Height : 405mm. (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		

33	<p>Supplying ,fitting & Fixing of Conference Table-2 Person Material of work top -25 mm thick prelaminated particle board, Table top plain side-Edge banded with PVC tape of 2 mm thick with help of hot melt glue, Material of Gable end and modesty panel-18 Mm Thick Three Layers Prelaminated Particle Boards Of Grade-II Type-III Of IS:12823/Latest Both Sides Particle Boards Matching With Top Shade In Grade-II Type-III, Length of Each Seat of Work Top \pm 20 mm- 675 mm for single AND 1350 mm For dual,Depth of Work Top-600mm, Height of Work Top-750 mm, Corners of work top - 850 mm, Table top finish-Laminate In Colour With matt Finish 0.6-0.8 Mm Thickness Of Type S,F Or P Having Index Number 3.2.3 Conforming To IS:2046/Latest With Having Balancing Laminate Of 0.5 Mm Thick On Other Side (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I</p>	1	Each		
34	<p>Supplying ,fitting & Fixing of Conference Chair The seat is made up of 1.2 +0.1cm. thick hot pressed plywood upholstered with fabric or synthetic leather and moulded Polyurethane Foam. The back is made up 1.2 +0.1cm. thick hot pressed plywood measured as per QA method described in OCP-OQLTA-P14-18 and upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. * MID BACK SIZE 48cm.(W) X 64.5cm.(H) *SEAT SIZE 51.0cm.(W) X 48.0cm.(D) HIGH RESILIENCE (HR) POLYURETHANE FOAM:The HR polyurethane foam for seat and back is moulded with density = 45 +/-2 kg/m* and Hardness load 16 + 2 kgf as per IS:7888 for 25% compression.ARMREST(FIXED)-The armrest top is moulded from polyurethane (PU) and moulded on to a fixed type tubular armrest support made of @3.8140.03 cm x 0.240.01 cm thk M.S. E.R.W tube having chrome plated finish. KNEE TILT SYNCHRO MECHANISM WITH SEAT DEPTH ADJUSTMENT MECHANISM. The mechanism is designed with the following features 360° revolving type, Single point control, Front pivot for tilt with feet resting on ground ensuring more comfort, Tilt tension adjustment, 4-position locking with anti-shock feature FRONT PIVOT SYNCHRO MECHANISM: The mechanism is designed with the following features: 360° revolving type. Single point control. Front pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 4-position locking with anti-shock feature.FIXED SPINE The seat and back are arrested together with fixed type spine i.e no back up/down adjustment; made of 0.8 40.05 cm thk HR Steel and is black powder-coated (DFT 40-60 microns). PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 10.0\pm0.3 cm.TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in black Nylon (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I</p>	1	Each		
35	<p>Supplying & Fixing of Table Middle Main Desk with ERU Size 1650 x 700 x 743 (Main Desk) 1000 x 450 x 743 (ERU) Understructure: The understructure is in prelam panels, made with PLT boards.2Drawer and 3Drawer storage units with different combinations to support Tops, made with 18mmPLT boards of different colours. Modesty and back panels, made with 18mm PLT boards. The Pedestals/Storages are fitted with necessary Locks PLT Board Tops (Straight Edges): Wenge and Savannah Maple PLT board used for making Tops. PVC membrane Tops (with profiles): (Make-Godrej /Durian/Zuari/Methodex) as per direction of E/I</p>	1	Each		

36	Supplying & Fixing of TABLE 1800 WITH ERU Premium Executive suite:- The Premium Executive Suite should contain Executive Table with ERU and pedestal consisting of Primary work surface Size : 1800 W * 7500 D * 750 H; Secondary work surface size 1200 W * 500 D * 750 H; Integrated Pedestal size 472 W * 750 H. Main table shall be Made of 25mm thick MDF one side pre-laminate board confirming to IS-14587:1998 with 0.4mm PVC membrane pressed on to top Soft closing access flap with in-build power box are provided on work surface for wire management and secondary work surface and Modesty Panel shall be made up Made of 25mm thick MDF one side pre-laminate board confirming to IS-14587:1998 with 0.4mm PVC membrane pressed on to top. Under Structure should be Made of 25mm Thick Pre-laminated twin board of E1-P2 grade and approved shade confirming to IS-12823:1990, Handles are provided for ease of opening. Pedestal is provided with lock for security (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
37	Supplying & Fixing of High Back Chair :- Height Adjustable Back : The Contoured Lumber Area Can Be Adjustable To Suit Your Back Profile By Adjusting The Back Height. T-Spine Structure: This Supports The Contoured Chair Back, Providing Flexibility In The Back Height Adjustment. Height Adjustable Arms: This Wide, Soft Edged Pu Top Armrests Provide Complete Support To Elbows And Forearms. The Height Of Armrest Can Be Adjusted As Per Need. Active Bio-Synchro Mechanism: The Active Bio - Synchro Mechanism Senses Your Body Weight And Tilts Accordingly Even As The Seat Slide Glides In Tandem With The Back. The Provides Full Contact And Continuous Support To The Back In All Tilt Positions. The Chair Comes With 5 Position Tilt Limiter. Seat Depth Adjustment: The Seat Depth Adjustable Helps Fit Different Body Types. (76.10 (L) X 76.10 (D) X 43.10 - 53.10 (Seat Height) (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
38	Supplying & Fixing of COMPUTER TABLE:- Dimensions: W x H x D: 77 cm x 123 cm x 61 cm (2 ft 6 in x 4 ft x 2 ft), With CPU Compartment and Built-in Keyboard Tray, Knock Down - Delivered in non-assembled pieces, installation by service partner, 1 year warranty Straight Set-up for Study & Home Office with Storage Space, The lockable storage space and contemporary design make it the perfect computer table for every modern home (Make- Godrej /Durian/Zuari/Methodex) as per direction of E/I	1	Each		
Part B-Air Conditioning					
1	Supplying, Installing, Testing, Commissioning of 1.5 T inverter AC including appropriate stabilizer complete setup of Make- (Daikin/Carrier/Hitachi/Voltas) all complete job as per direction of E/I.	1	Each		
2	Supplying, Installing, Testing, Commissioning of 2.0 T inverter AC including appropriate stabilizer complete setup of Make- (Daikin/Carrier/Hitachi/Voltas) all complete job as per direction of E/I.	1	Each		
3	Supplying, Installing, Testing, Commissioning of 3 T Digital inverter Cassette AC fitted with single rotary compressor (Cooling only) with cordless remote control including installing) of Make- (Daikin/Carrier/Hitachi/Voltas) all complete job as per direction of E/I.	1	Each		

4	Supplying, Installing, Testing, Commissioning of standing vertical 4 Ton AC inverter type having 4 Ton capacity (Tower AC) including appropriate stabilizer complete setup of make- Daikin/Carrier/Hitachi/Voltas/LG all complete job as per direction of E/I.	1	Each		
5	Supplying, Installation, Testing & Commissioning of Refregent pipe 5/8 and 1/4 copper tube with nytral rubber tube insulated including 3 core 2.5 sqmm copper wire all complete job as per direction of E/I.	1	Mtr.		
6	Installation/Shifting, Testing & Commissioning of existing old AC all complete job as per direction of E/I.	1	Each		
7	4KVA Wall mounted automatic voltage stabilizer with hi/low cut off timer of make V-Guard do do all complete job as per direction of E/I.	1	Each		
8	5KVA Wall mounted automatic voltage stabilizer with hi/low cut off timer of make- V-Guard/Microtek all complete job as per direction of E/I.	1	Each		
9	Supplying & fitting of Drain with PVC rigid including required fitting and support all complete job as per direction of E/I.	1	Mtr.		
10	Supplying & fitting of powder coated iron structure for placement of outdoor unit all complete job as per direction of E/I.	1	Each		

Part C-Pre-fab Work

1	Structural steel work riveted, bolted or welded in Rectangular hollow section, in framed work, including cutting hosting,fixing in position and applying a priming coat of approved steel primer and two coats of enamel paint all complete job as per direction of E/I.	1.00	Kg		
2	Providing and fixing PUF Insulated sandwich panels for wall cladding. The wall panels shall be 50 mm thick continuous sandwich panels made out from continue line method. Panel having 0.5 mm thick pre coated steel sheet on both side of Polyurethane foam all complete job as per direction of E/I.	1.00	Sqm		
3	Providing and fixing PUF Insulated sandwich panels for Roof cladding. The roof panels shall be 30 mm thick continuous sandwich panels made out from continue line method. Panel having 0.35 mm thick pre coated Profile steel sheet on outer side and 0.35 mm inside all complete job as per direction of E/I.	1.00	Sqm		
4	Providing and fixing pressed steel door frames confirming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness with min. 40mm thick door shutter. The door shutter will be made out with puf insulated sandwich panels as wall panels. The c cap will be provided on all around, with suitable reinforcement for fixing of hardware all complete job as per direction of E/I.	1.00	Sqm		
5	The Frame for openable type window will be made from pressed steel using 1.5mm thick. Shutter shall be made out of steel hollow box profile of 1.25mm thick. The window shall be complete with all necessary hardware for locking from inside. Clear glass sheet of 4mm thick shall be fixed using glass putty. The frame shall have grills made from MS square bar of 10mm having equal spacing all complete job as per direction of E/I.	1.00	Sqm		
6	Providing and fixing of Sun Shed for door/window/ ventilator. The Sunshed will be be made out ith 0.5 mm PPGI sheet and supported with MS angle bracket. The Sunshed will be 300mm projected from wall. It will be fixed on wall panel with suitable fastenening all complete job as per direction of E/I.	1.00	Mtr.		

7	Providing and fixing Flashings/ Aprons.(Upto 600 mm) Like corner angle, U-track, sunshed, etc. made from precoated sheet all complete job as per direction of E/I.	1.00	Mtr.		
Part D-Interior Work					
1	Providing and fixing wooden flooring of approved color and texture, and of 12 mm thickness of Make- Green/ MIKASA/ VISTA/ Action Tessa/ Unitex of boiling water resistant quality. All complete as per labor material as per company's specification (AC4 grade) all complete job as per direction of E/I.	1	Sqm		
2	Providing and fixing wooden flooring of approved color and texture, and of 8 mm thickness of Make- Green/ MIKASA/ VISTA/ Action Tessa/ Unitex of boiling water resistant quality. All complete as per labor material as per company's specification (AC4 grade) all complete job as per direction of E/I.	1	Sqm		
3	Supplying & Fixing of Vertical/Roller Blinds approved Colour & Sample of Make- Vista/Decor all complete job as per direction of E.I.	1	Sqm		
4	Providing and fixing of frosted/transparent type Vinyl static Cling film on existing Glass of windows/door all complete job as per direction of E.I.	1	Sqm		
5	Provision of Wall décor with Decorative wall paper of requires themes of standard quality selected as per direction of engineer incharge for intire decoration of the block all complete job as per direction of E.I.	1	Sqm		
6	Providing and installing of copper flower pot having capacity of 1 Cft with pvc decorative plant/flower for interior decoration all complete job as per direction of E.I.	1	Each		
7	Providing and supplying of floor matt of size 4 feet x 2.5 feet of juit finish all complete job as per direction of E.I.	1	Each		
8	Providing and supplying of table made up of 19 mm waterproof ply laminated with mica and granite top combining with 3 rack for kitchen appliances and all required fittings all complete job as per direction of E.I.	1	Sqm		
9	Providing Perplex Sheet (Transparent) 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	1	Sqm		

10	<p>Design, Manufacture, supply and installation of Façade dpi system, a complete assembly of co-extruded UV protected 18 mm thick multi-layered polycarbonate (approved colour and make dpi daylighting or any equivalent) panels with angular walls incorporated into a complete system in building Façade. Panels shall have 7 layers with angular walls with opaque and translucent clear blinds in combination as per required Lux Level inside the building. Panels shall be with grip-lock notch standing seam running lengthwise to accommodate the connectors. Panel system shall be assembled & installed on Aluminium Malian Structure (Paid separately) at center to center 1202 mm with self-drilling screws in a continuous aluminium connector with gripping the panel width on both sides. The system shall ensure the mechanical strength, water tightness and air tightness of the roof as per Panel length of 11980 mm (Max.) and width of 1200 mm.</p> <p>Aluminium connector assembly shall have a pull-out load of 2.1 KPA (min) when tested as per ISO 6892 : 1998 and IS 1608:2005. Panels shall pass dart drop impact test as per IS 14443-97, shall show no sign of breakage on Polycarbonate sheets which have been exposed to UV for a min. of 500 Hours as per ASTM G 155. Panels shall not have Yellowness Index as per ASTM D 1925 of 15 units when tested on a sample exposed to UV for 500 Hours as per ASTM G 155. Panel shall be with additional End cap/Aluminium U / F Profile / Glazing Bar (mill finish) for ends as required.</p>	1	Sqm		
11	<p>Providing laminated ply wood panelling upto specified height with 1.0 mm lamination mica matt finish of make- Green/Century laminate/ Mika over 6 mm thick ply wood fitted and fixed over hollock wood frame of 25 x 25mm posts at 60 cm centres and 25 x 25mm horizontal members at approx 60 cm centers including cost of anchoring the panelling to walls properly including TW lipping on the top surface as per drawing specification and direction of E/I.</p>	1	Sqm		
12	<p>Providing double skin laminated ply wood panelling upto specified height with 1.0 mm lamination matt finish of make- Green/Century laminate/ Mika over 6 mm thick ply wood of mayur/greenply / equivalent (ISI Mkd. confirming to IS-303) make fitted and fixed over hollock wood frame of 25 x 25mm posts at 60 cm centres and 25 x 25mm horizontal members at approx 60 cm centers including cost of anchoring the panelling to walls properly including TW lipping on the top surface as per drawing specification and direction of E/I.</p>	1	Sqm		
13	<p>Supplying & Installation of Wall Clock made up of Metal Dial And Hands Wall Clock all complete job as per direction of EI.</p>	1.00	Each		
14	<p>Supplying & Installation of SWAGGERS Buzzer double coil Electric Bells And Accessories (SWAGGERS) (SW-6 INCH BELL) all complete job as per direction of EI.</p>	1.00	Each		
15	<p>Supplying & Installation of first aid box consists of Clinical Thermometer- Yes, Bandage- Yes, Material of bandage- Cotton, Size of the bandage (L x W)- 3 meter x 5 cm, Adhesive plaster- Yes, Size of Adhesive plaster- 19 x 72 mm, Material of Adhesive plaster- Woven fabric, Sterile gauze swab- Yes, Size of Sterile gauze swab- 5 x 5 cm, Scissor- Yes, Material of the scissor- Stainless steel, Size of scissor- Small, Absorbant cotton roll - Yes, Quantity of absorbant cotton - 250gm, Triangular bandage- Yes, Number of triangular bandage- 2, Antiseptic Liquid- Yes, Type of Antiseptic Liquid- Dettol, Size of antiseptic liquid- 50 ml, Antiseptic cream - Yes, Type of Antiseptic cream- Burnol, Quantity of Antiseptic cream- 5 gm all complete job as per direction of EI.</p>	1.00	Each		

16	Providing & Fixing of Wall Painting/Sticker (Artistic Work) of requires themes of standard quality selected by E/I with all necessary material, Labour etc. as required all complete job as per direction of El.	1.00	Sqm		
17	Providing & Fixing of Sublimated plain steel Doors of GP sheet of 1.2 mm thick for frame with 0.8 mm thick for shutter of total thickness 46 mm with 2 nos tower bolt, door stopper,ball bearing, mortish lock and all necessary items with all complete job.(Make Tata pravesh, JSW & Jindal)	1.00	Sqm		
18	Supplying & Installation of Green Board having size 4 x 8 feet (WidthxHeight) Ceramic Steel Green Dry Erase Writing Boards, frame of material-Anodized extruded Aluminium alloy hollow section of designation 63400 conforming to IS: 1285, surface suitable writting for chalk for colour & black board of approved colour and texture all complete job as per direction of El.	1.00	Each		
19	Supplying & Installation of DUSTBIN having capacity of 100 Litres Dust Bin stand with 2 No. of Compartments. Material- Stainless steel, waste containers or rigid liners,Wheel Lock- Without,Load carrying Capacity (Kgs)- 100,Wall:- Non- Perforated,Lid- hindged,Handle- Without,Wheel- Without,Gripping Provision- Frontal all complete job as per direction of El.	1.00	Each		
20	Supplying & Installation of Stainless steel DUSTBIN having capacity of 10 Litres all complete job as per direction of El.	1.00	Each		
21	Supplying, mounting and fixing of LED Signage of on exterior wall having base of ACP panel board complete with making connections with 1.5 sq mm wire for lumanaries do do all complete job as per direction of E/I.	1.00	sqft		
22	Providing & fixing of Steel/Acrylic Signages of Size in 400mm in height with all work including fixing and polishing at provided space with all carriage and required scaffolding .	1.00	Each Letter		
23	Providing & fixing of Steel/Acrylic Signages of Size in 300 mm in height with all work including fixing and polishing at provided space with all carriage and required scaffolding .	1.00	Each Letter		
24	Providing & fixing of Steel/Acrylic Signages of Size in 275 mm in height with all work including fixing and polishing at provided space with all carriage and required scaffolding .	1.00	Each Letter		
25	Providing & fixing of Steel/Acrylic Signages of Size in 150 mm in height with all work including fixing and polishing at provided space with all carriage and required scaffolding .	1.00	Each Letter		
26	Providing & fixing of Steel/Acrylic Signages of Size 600 mm in height with all work including fixing and polishing with all carriage and required scaffolding .	1.00	Each Letter		
27	Providing and fixing of brass/Steel/Acrylic Sheet of plate of Size 300 mm x 100 mm in height with approved matter all work including fixing and polishing with all carriage and required scaffolding .	1.00	Each		
28	Providing and fixing of brass/Steel/Acrylic Sheet plate of Size 400 mm x 225 mm in height with approved matter all work including fixing and polishing with all carriage and required scaffolding .	1.00	Each		

Part E-Smart Class Solution

1	<p>Installation and Commissioning of Display Type LCD, Display Panel Diagonal size (mm) 1778</p> <p>Width of The Effective Display Area of The Panel (mm) 1539, Height of The Effective Display Area of The Panel (mm) 866, Backlight Technology LED, Display Resolution (Pixels) 1440X1080, Display Brightness (Nits) 329, Touch interface Touch sensitive as well as pen driven, Touch Technology Infrared optical, Number of touch points (Number) 10, Response time (milli seconds) 8, Provision of in built speakers, other peripherals as per technical specifications and as directed by engineer in charge.</p> <p>(Make-Sony/panasonic/LG/Ben-Q/Viewsonic)</p>	1.00	Each		
2	<p>Installation and Commissioning of Display Screen size Diagonal 65"</p> <p>Backlight DLED Resolution 3840 x 2160 Aspect Ratio 16 : 9 Brightness 350nits Contrast Ratio 1200:1 Viewing Angle 178 degree (H) / 178 degree (V) Color gamut (x% NTSC) 68% Frame Rate 60Hz Response Time 8ms Panel bit 8-bit Light life 30,000hrs Orientation Landscape Built-in speaker 16W x 2 Input Power (AC) Inlet x 1 Audio line-in x 1 Composite video No Composite audio No Component video (RCA) No D-sub x 1 HDMI x 3 (2.0 x 3) Type A (USB Playback) x 5 (USB 2.0 x 2 + USB 3.0 x 3) RS232 x 1 S-video No SPDIF x 1 LAN x 1 Output Microphone No RS232 No HDMI x 1 Line out (3.5mm) x 1 COAX No Others NFC Reader/Writer No IR receiver x 1 Dimension (WxHxD) (Without Packing / With Packing) 1488.7 x 938.9 x 115.6mm / 1675 x 1056 x 220mm Net Weight/Gross Weight 41.2Kg / 55.5Kg Power supply AC100 to 240V, 50 / 60 Hz Power consumption 240W (max.) other peripherals as per technical specifications and as directed by engineer in charge. (Make-Sony/panasonic/LG/Ben-Q/Viewsonic)</p>	1.00	Each		
3	<p>Installation and Commissioning of Display Screen size Diagonal 65"</p> <p>4K Interactive Display dual-pen writing with a 3mm diameter pen tip 2.1 Stereo sound with a built-in woofer Built-in myViewBoard™ whiteboarding software to collaborate on the go 4-way split screen content sharing with built-in ViewBoard® Cast software LAN sharing with slot-in PC Built-in RS232 port and vController software for remote control Panel Size 65" Type/Tech TFT LCD Module with DLED Backlight. Display Area (mm) 1431 (H) x 807 (V) (64.5" diagonal) Aspect Ratio 16:9 Native Resolution UHD 3840x2160(Pixels) Colours 1.07B colours (10bit) Brightness 350 nits (typ.) 300 nits (min.) Contrast Ratio 5000:1 (DCR) Response Time 8ms Viewing Angles H = 178, V = 178 typ. Backlight Life 30,000 Hours (Min)</p> <p>Surface Treatment Anti-Glare Bezel Slim rientation Landscape Platform Processor ARM Cortex A73 dual-core 1.2GHz RAM 2GB DDR4 Storage 16GB Touch Type/ Tech IR Recognition Touch Resolution 32767 x 32767 Touch Point 20 points touch, 10 points writing INPUT HDMI 2.0 x3 (3840x2160 @60Hz) RGB / VGA x1 Audio x1 other peripherals as per technical specifications and as directed by engineer in charge. (Make-Sony/panasonic/LG/Ben-Q/Viewsonic)</p>	1.00	Each		

4	<p>Installation and Commissioning of Display Screen size Diagonal 65 inches 4K Ultra HD Certified Android LED TV 65X8000H (Black) Resolution: 4K Ultra HD (3840 x 2160) Refresh Rate: 50 hertz Connectivity: 4 HDMI ports to connect set top box, Blu Ray players, gaming console 2 USB ports to connect hard drives and other USB devices Sound output: 20 Watts Output Bass Reflex speakers X-Balanced Speaker Dolby Atmos TV MusicBox Smart TV Features: Android TV Voice Search Google Play Chromecast Netflix Recommended Amazon Prime Video HDR Gaming Display: X1 4K HDR 4K X-Reality Pro Motionflow XR other peripherals as per technical specifications and as directed by engineer in charge. (Make-Sony/panasonic/LG/Ben-Q/Viewsonic)</p>	1.00	Each		
Part F-IT Product					
1	<p>Supplying,Installing,Testing with Dome Camera Form factor 2 Megapixel high resolution Usage Indoor Usage Lens 1/3" angle of view: Day /night IR as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make Secure eye, Hikvision or CP Plus.</p>	1.00	Each		
2	<p>Supplying,Installing,Testing with bullet Camera Form factor 2 Megapixel high resolution Usage Indoor Usage Lens 1/3" angle of view: Day /night IR as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I. Make Secure eye, Hikvision or CP Plus.</p>	1.00	Each		
3	<p>Supplying,Installing,Testing Network Video Recorder with 32 Channel Video compression H-265 Channel 16 System Resolution multi-channel real time recording, playback, network operation Preview 1/4/8/16 Display Quality VGA, HDMI, Backup Mode Network/ USB Device Interface port 1 x HDMI,1 x SATA (Single maximum support 6TB each) 12V/4A as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make: Pelco, Honeywell, Sony, Bosch, Hikvision or similar</p>	1.00	Each		
4	<p>Supplying,Installing,Testing 32 Port POE GIGABIT Network Switch with Gigabit Copper Ports- At least 24 Nos.of 10/100/1000 base T ports with RJ 45 Connector Gigabit Fiber Uplink Ports (1G/10G) - At Least 4 Nos of 1G SFP Ports, Port Status Display- Each Port must have a dedicated led for status display, IP Multicast -IGMP Snooping, In-band Management -Web based management (On https/http)-SSH based management (SSH v2). Telnet Out-of-band Management -Console Port -Management Ethernet Port. Interface cables - Console cable and power cable (As per Indian standards) to be provided. Make HP, Cisco, Net gear, D-Link, Hikvision Juniper or similar.</p>	1.00	Each		
5	<p>Supplying,Installing,Testing Hard Disk with Storage Capacity -6 TB, HDD Type -Surveillance, Make- Seagate, WD , samsung.</p>	1.00	Each		
6	<p>Supplying Cat 6E UTP Cable with Network cable -23 AWG Solid Bare Copper with Polyolefin Tape, Tight lay system with Table 2 Colour coding, Short-staggered pair, Non-led FR PVC, Flexible separator, optimum pair to pair & power sum cross talk, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I. Make D-Link, Molex, Digi link or similar all complete job including VC casing and capping.</p>	1.00	Meter		

7	Supplying,Installing,Testing Mount Network Rack Enclosure with Accessories Specification Racks manufactured out of steel punched, formed and powder coated. Racks should be manufactured by ISO 9001-2008 Certified Company. Racks should have Front Toughened Glass Door with lock & Key. Rack should have ventilations slots on the both sides Rack Should have provision for cable entry Exit from top & Bottom with rubber grommets. as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/IMake: VALRACK/D-LINK/Net Rack	1.00	Each		
8	Supplying,Installing,Testing Display Panel with Screen Size- 32-inch Aspect Ratio- 16:9 Panel Backlight -IPS/Direct-LED Backlight Scanning -100Hz Resolution -1920 X 1080 pixels Viewing Angle-178 X 178 VIDEO IN -RCA X 1 AUDIO IN (L/R)/PC AUDIO IN -RCA Pin Type X 2 HDMI IN- TYPE A Connectors X 2 COMPONENT IN- Y, PB/CB, PR/CRX1 USB Input -USB 2.0 X 1as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I (Make:- Samsung/Sony/LG/Panasonic)	1.00	Each		
9	Supplying,Installing,Testing 1KVA UPS with Some specification i)1KVA/600WUPS ii)Input Voltage Range - 140-300V AC iii)Input Frequency - 50 Hz iv)Output Voltage - 230V AC v)Cord Length : 1.5 mtr (min) vi)Maintenance-free sealed ,leakproof Battery vii) Full Protection- Discharge, overcharge, and overload protection viii)Autore start while AC recovery ix)ROHS Complied x) Power backup of minimum 30 minutes for camera and network switch & as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I. (Make:- Microtek/Exide/V-Guard)	1.00	Each		
10	Providing fitting and fixing of ahuja make of AMPLIFIER 125WATTS USB as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I.	1.00	Each		
11	Supllyng,Installing,Testing and Commisioning of Multi 111-8-CH Splitter/Mixer as per technical specifications including carriage and necessary required equipment all complete job as perdirectionofE/I. Make- DIBox studio master or ahuja	1.00	Each		
12	Supllyng,Installing,Testing and Commisioning of SMX 302T WALL/ceiling SPEAKER (12 watt) as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make- F&D/ahuja.	1.00	Each		
13	Supllyng,Installing,Testing and Commisioning of AWM 700 U2 CORDLESS MIC as per technical specifications including carriage and necessary required equipment all complete job as perdirectionofE/I. Make:- Studio Master/ahuja.	1.00	Each		
14	Supllyng,Installing,Testing and Commisioning of 6U Rack as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I.Make: VALRACK/D-LINK/Net Rack	1.00	Each		

15	Supplying & Installing of speaker cable Wire as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	meter		
16	Supplying,Installing,Testing and Commisioning of 5Kva Stabilizer as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I. Make- V-Guard/Servo	1.00	Each		
17	Providing fitting and fixing of ahuja or equivalent make of HOST CONTROL UNIT (CWS-8300 R) as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I. Make:- Ahuja/StudioMaster	1.00	Each		
18	Supplying & Fixing wired mike with stand as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I make- ahuja/F&D.	1.00	Each		
19	Supplying, Installing, Testing & Commissioning of Desktop Computer with Intel core i3 9th Gen with 4GB DDR4 Ram, 1TB Hard disk (WIFI/BT) USB Keyboard, USB Mouse, Preofessional Win10, 18.5" TFT having 3 Years Onsite warranty as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I(Make- DELL/ACER/LENOVO/HP)	1.00	Each		
20	Supplying, Installing, Testing & Commissioning of Desktop Computer with Intel core 8th Generation Intel® Core™ i7 processor, 8 GB RAM, 2 TB HDD storage, (WIFI/BT), 256 GB SSD storage USB Keyboard, USB Mouse, Preofessional Win10, 18.5" TFT having 3 Years Onsite warranty as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I (Make- DELL/ACER/LENOVO/HP)	1.00	Each		
21	OnLine UPS Supplying, Installing, Testing & Commissioning of On Line UPS of capacity 40 KVA,Nominal Input voltage: 135-300V AC / 50Hz+5% Output Voltage : 230V VA + 9%, 1hour Power backup, one year warranty with Battery for online UPS with Rack & links making all connection as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make:-(APC/microtek/luminous)	1.00	Each		
22	Supplying, Installing, Testing & Commissioning of A4 Mono Monolithic printer with Print speed black: Print Speed (A4): Up to 27ppm, Recommended monthly print volume: 500 - 2,500 pages, Print Resolution: Up to 1200 x 1200dpi (equivalent), FPOT (A4): 6.0secs. as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I (make- Canon/HP/Epson)	1.00	Each		
23	Networking for a computer including patch cable, Mounting plate with GI box & patch cord and all other required fittings as per technical specifications including carriage all complete job as per direction of E/I	1.00	Each		
24	Supplying, Installing, Testing & Commissioning of Server- Processor 4U/Intel Xeon E-2104G (3.2GHz/4core/8mb/65w)/ RAM 16GB Turbo DDR4, HDD 1TB/NIC 3x1 Gig Port 3 Year Onsite Warranty, Keyboard And Mouse, Monitor 20" LED as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make- LG/Samsung/Sony	1.00	Each		

25	Supplying, Installing, Testing & Commissioning of Licence-Microsoft Windows Server 2016 Std Edition License as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		
26	Providing fitting and fixing podium with Inbuilt Speakers, Amplifier, Cordless Mic, Podium Mic, Usb Port as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I. Make-Ahuja	1.00	Each		
27	RJ-45 Connector for termination of 4 pair termination CAT-6 Cable as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		
28	HDMI to HDMI cable of 3 meter length as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		
29	Supply and Erecting modular type computer jack RJ 45 with mounting plate and box with wiring connections complete of as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make :- Dlink/ Legrand.	1.00	Each		
30	Supplying, installation, testing and commissioning of 5kVA online UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I Make:- (APC/microtek/luminous)	1.00	Each		
Part G- Game Equipment					
1	Supplying of Yoga Mat/Exercise Mat having size of 180cm (L) X 90cm (W) X 12mm (T), Material- Ethylene Vinyl Acetate of approved colour and texture all complete job as per direction of EI.	1.00	Each		
2	Supply and installation of multi colour EPDM Rubber Flooring having thickness of 25 mm for polymeric sports surface to existing surface as per design & drawing, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Sqm		
3	Supplying & Installation of rosewood Carrom board made up of Lacquered Plywood Playing Surface (Side of Square) 73.5 cm to 74 cm, thickness of Playing Surface (Min) 8 mm as per design & drawing, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		
4	Supply and installation of AB Climber , Type of slide ladder : Full Arch shape Slide ladder made up of virgin grade polyethylene plastic as per design & drawing, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		
5	Supply and installation of one set of swing of 2 seater 9 ft high (one set of swing of 2 seater 9 ft high) Swing seat made up of Virgin grade polyethylene plastic as per design & drawing, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		
6	Supply and installation of Outdoor gym horse rider, Type : Leg Press Single Maximum User Weight (Kg) : 100 kilogram as per design & drawing, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I	1.00	Each		

7	<p>Supply and installation of Indoor Fun See Saw having size of Size of see saw(L x H X base width) (in mm) 1265 x 400 x 400,Size of base of see saw(L x H) (in mm) 400 x 145,Uppertop and bottom width of base of see saw(W x W) (in mm) 60 x 80,Thickness of item(in mm) 2.5,Height of Button mushroom mechanism fitting(in mm)125,Top and bottom diameter of Button mushroom mechanism fitting(D x D)(in mm) 150 x 40,Size of upper side of Button mushroom mechanism fitting(L x W x D)(in mm) 100 x 35 x 65, Size of middle part of see saw(L x H x W x T)(in mm) 510 x 225 x 55 x 4,Diameter of see saw seat hole(in mm) 7,Space between 7mm and 40mm diameter(in mm) 35,Base Locking(W x H)(in mm) 95 x 70,Size of See saw seat (L x W)(in mm) 540 x 90,Handle(L x Dia x T)(inmm)260x25x4Total seating base(in mm) 220,Gap between handle and front side(inmm)140Size of seating base(bottom)(Dia x Dep)(in mm) 90 x 50,Diameter of rubber balloon after blowing(in mm) 180,Height of MS bolt(in mm) 20 Diameterof MS bolt (2piece) (inmm) 7 Diameter of MS bolt (4nos)(inmm) 50 Inner diameter (in mm) 10,Thickness (2 piece)(in mm) 2,Height of screw(4nos)(inmm)10Diameter of align key(in mm) 4 complete as per design & drawing, as per technical specifications including carriage and necessary required equipment all complete job as per direction of E/I</p>	1.00	Each		
Part H- Lift Work					
1.	<p>For 04 Passenger Supply, Installation, Testing, commissioning and handing over of passenger electric traction lift. a) Speed – 1.00 meter per second b) Stop – at all levels. c) Opening – All opening on same side i. Passenger capacity: 04 Passenger/272 Kg. ii. Serving floors: GF + 4 Floors. iii. Travel – 20.00 Meter (approx.) Make- KONE/OTIS/THYSSEN KRUPP</p>	1.00	Each		
2.	<p>For 05 Passenger Supply, Installation, Testing, commissioning and handing over of passenger electric traction lift. a) Speed – 1.00 meter per second b) Stop – at all levels. c) Opening – All opening on same side i. Passenger capacity: 05 Passenger/340 Kg. ii. Serving floors: GF + 4 Floors. iii. Travel – 20.00 Meter (approx.) Make- KONE/OTIS/THYSSEN KRUPP</p>	1.00	Each		
3.	<p>For 06 Passenger Supply, Installation, Testing, commissioning and handing over of passenger electric traction lift. a) Speed – 1.00 meter per second b) Stop – at all levels. c) Opening – All opening on same side i. Passenger capacity: 06 Passenger/408 Kg. ii. Serving floors: GF + 4 Floors. iii. Travel – 20.00 Meter (approx.) Make- KONE/OTIS/THYSSEN KRUPP</p>	1.00	Each		

4.	For 08 Passenger Supply, Installation, Testing, commissioning and handing over of passenger electric traction lift. a) Speed – 1.00 meter per second b) Stop – at all levels. c) Opening – All opening on same side i. Passenger capacity: 08 Passenger/544 Kg. ii. Serving floors: GF + 5 Floors. iii. Travel – 23.00 Meter (approx.) Make- KONE/OTIS/THYSSEN KRUPP	1.00	Each		
5.	For 10 Passenger Supply, Installation, Testing, commissioning and handing over of passenger electric traction lift. a) Speed – 1.00 meter per second b) Stop – at all levels. c) Opening – All opening on same side i. Passenger capacity: 10 Passenger/680 Kg. ii. Serving floors: GF + 4 Floors. iii. Travel – 20.00 Meter (approx.) Make- KONE/OTIS/THYSSEN KRUPP	1.00	Each		
6.	For 13 Passenger Supply, Installation, Testing, commissioning and handing over of passenger electric traction lift. a) Speed – 1.00 meter per second b) Stop – at all levels. c) Opening – All opening on same side i. Passenger capacity: 13 Passenger/884 Kg. ii. Serving floors: GF + 4 Floors. iii. Travel – 20.00 Meter (approx.) Make- KONE/OTIS/THYSSEN KRUPP	1.00	Each		

Part I- Electric Panel

1	Design,manufacturing,assembling,wiring,supply,installation,testing and commissioning of the following extensible cubicle type indoor mounting,dead front,fully compartmentalised with hinged lockable detachable from& backl openable,dust and vermin proof,floor mounting sheet steel clad switchboard fabricated out of 2 mm thick CRCA powder coated sheet steel suitable for use at 415 volt 3 phase 4wire 50 cycle system,BMS Compiatable and to withsatans a symmetrical fault level of below mentioned kA at 415 volt. panels shall be fabricated in easily transportable sections,length,height,depth etc.to match with site condition,complete in all respect. INCOMER:- 1). 1 Nos.160 Amps. TPN MCCB(25 KA) Breaking capacity. 2). 1 Set of RYB phase Indication lamps with suitable rating MCB 3). 1 Set of ON/OFF Indication lamps along with 2A SP MCB backup protecting. 4).1 set Digital Ampere meter with suitable rating CT and selector switch 5). 1 set Digital Volt meter with suitable rating MCBs and selector switch Busbar Electrolytic high conductivity aluminium three phas and neutral busbars rated at 415V, 125 amps,35 kA,insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints. The busbar sizing calculations shall be submitted for approval,considering all derating factors.	1	Each		
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	<p>3 Nos. 40 Amps. TPN MCCB(16 KA) with electronic releases.</p> <p>Outgoings</p> <p>1) 4 No.40 amp FP MCB of 10 kA breaking capacity.</p> <p>2) 5 No.63 amp FP MCB of 10 kA breaking capacity.</p>				
2	<p>ELECTRICAL PANELS</p> <p>Design,manufacturing,assembling,wiring,supply,installation,testing and commissioning of the following extensible cubicle type indoor mounting,dead front,fully compartmentalised with hinged lockable detachable from& backl openable,dust and vermin proof,floor mounting sheet steel clad switchboard fabricated out of 2 mm thick CRCA powder coated sheet steel suitable for use at 415 volt 3 phase 4wire 50 cycle system,BMS Compiatable and to withsatans a symmetrical fault level of below mentioned kA at 415 volt. panels shall be fabricated in easily transportable sections,length,height,depth etc.to match with site condition,complete in all respect. INCOMER:-1). 1 Nos.160 Amps. TPN MCCB(25 KA) Breaking capacity.2). 1 Set of RYB phase Indication lamps with suitable rating MCB3). 1 Set of ON/OFF Indication lamps along with 2A SP MCB backup protecting.4).1 set Digital Ampere meter with suitable rating CT and selector switch 5). 1 set Digital Volt meter with suitable rating MCBs and selector switch BusbarElectrolytic high conductivity aluminium three phas and neutral busbars rated at 415V, 500 amps,35 kA,insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints. The busbar sizing calculations shall be sumitted for approval,considering all derating factors. 3 Nos. 40 Amps. TPN MCCB(16 KA) with electronic releases.Outgoings1 No.100 amp FP MCCB of 30 kA breaking capacity. (UPS)1 NO 400 AMP FP MCCB of 30 kA breaking capacity (Rising Main)1 NO 400 AMP FP MCCB of 30 kA breaking capacity (spare)1 NO 100 AMP FP MCCB of 30 kA breaking capacity (spare)</p>	1	Each		
3	<p>LIFT PANEL</p> <p>Design,manufacturing,assembling,wiring,supply,installation,testing and commissioning of the following extensible cubicle type indoor mounting,dead front,fully compartmentalised with hinged lockable detachable from& backl openable,dust and vermin proof,floor mounting sheet steel clad switchboard fabricated out of 2 mm thick CRCA powder coated sheet steel suitable for use at 415 volt 3 phase 4wire 50 cycle system,BMS Compiatable and to withsatans a symmetrical fault level of below mentioned kA at 415 volt. panels shall be fabricated in easily transportable sections,length,height,depth etc.to match with site condition,complete in all respectINCOMER:1 Nos. 160A TPN feeder each having one no. 160A TPN MCCB's with microprocessor based releases with isolable neutral ,ON indication1 no. multifunction meter (showing all power parameters), with selector switch, matching cast resin CT's.BUS BARA set of TPN Aluminium bus bar with heat Shrink Sleeve rated for 200A (after considering all necessary deratings) 3 phase 4wire, 50Hz. A suitable minimum derating factor must be taken for calculation of bus bar sizes. The bus bar size after derating shall be equal to the ampere given Maximum current density of 1 Amp per sq.mm is suitable for the busbar.OUTGOING5 nos 63 A TPN MCB's with indication lampsOther items such as 1 Lot of control wiring 1 Set of designation plates all complete job as per direction of E/I.</p>	1	Each		

4	Supplying, Installing, Commissioning, Testing Generator 100 KVA with autostart facility of make-make- Kirloskar / ashok Layland/Steerling/Cummin including connection testing, commissioning etc as required all complete job as per direction of EI.	1	Set		
5	Supplying, Installing, Commissioning, Testing Generator 400 KVA with autostart facility of make-make- Kirloskar / ashok Layland/Steerling/Cummin including connection testing, commissioning etc as required all complete job as per direction of EI.	1	Set		
6	Supplying/Receiving, Installation/Erection, Testing and Commissioning of 500 KVA TRANSFORMER, Copper wound 11/0.433 KV, 50 C/S, Delta star connected, Dyn11 vector group, Oil immersed Outdoor transformer with Off Load circuit Tap changer for Voltage regulation from -10% to +15% in 7 steps of 1.25% on HV side complete with AVR and RTCC panel, including Bucholtz relay, MOG, Oil & Winding temperature alarm and trip contacts with wiring upto marshalling box, and all standard accessories as required, complete with Cable End box suitable for 1RX3C x 95sq.mm. 11 KV(UE) XLPE insulated Al. Ar. Cable at HT side and XLPE insulated Al. Busduct for LT side, including S/F of M.S. channel of size 100 x 50 x 6mm for foundation support for transformer, including Drying/filteration of oil of transformer and OLTC Enclosure. Connection with Tap Changing Mechanism etc. as per IS 2026-1977 and as per direction of Engineer-in-Charge. Make :- ABB/ Schneider/Siemens/ Sterling as per direction of E/I.	1	Set		
7	LT SWITCHBOARD -Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated Main LT Switchboard fabricated out of 14 guage CRCA sheet steel in cubical, compartmentallised, free standing floor /wall mounted, dust and vermin proof, (degree of protection IP42) with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels. Approval shall be taken for each panel before fabrication. All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated as per specification and direction of Engineer-in-Charge. LT Switchboard shall be comprising broadly of the following equipments. Make :- ABB/L&T/Sterling as per direction of E/I. 2 Incomers each 1000Amps, S.C.C 50kA for 1 Sec ACB (EDO) 1 Buscoupler 1000Amps, S.C.C 50kA for 1 Sec ACB Outgoing Feeders (MCCB, P2, S.C.C 35kA) 400 Amps - 2 Nos. 250 Amps - 8 Nos. 100 Amps - 8 Nos. Aluminium Bus 1000 Amps, S.C.C 40kA for 1 Sec CT, PT, MCBs, Ammeter, Voltmeter with Selector Switches, Energy meter, indication lamps (On- Off Trip, Power On - RYB) 630Amps Isolator, S.C.C 35kA for interconnection with DG Set Supply, Testing, Installation & Commissioning of LT Switchboard (Indoor Type)	1	Set		
8	200KVAR APFC PANEL -Supply, Testing, Installation & Commissioning cost of 200KVAR APFC Panel having enclosure made of Powder coated 14 guage CRCA sheet steel in cubical,	1	Set		

	<p>compartmentallised, free standing , dust and vermin proof, (degree of protection-IP42)with reinforcement of suitable size angle iron, channel, T -iron or flats, cable gland plates etc as required and direction of Engineer-in-Charge, having following components/equipment :-</p> <p>Make:- ABB/L&T/Sterling as per direction of E/I.</p> <p>Incomer : 400A TP+N MCCB 36kA With Microprocessor Based Release (O/C,S/C) Protection & Rom+1C/O Aux+Trip Contact</p> <p>Outgoing : 250A TP+N MCCB 35kA With Thermal Magnetic Based Release (O/C,S/C) Protection & Rom</p> <p>8 Stage APFCR Relay Louver With Fan</p> <p>Indication lamps(On- Off Trip Power On -- RYB)</p> <p>Supply, Testing, Installation & Commisioning of 200KVAR APFC PANEL (Indoor Type)</p>				
9	<p>AC DISTRIBUTION BOARD -Design, Fabrication, Supply, Erection,Testing and Commisioning of Powder coated AC Distribution boards , fabricated out of 14 guage CRCA sheet steel in cubical, compartmentallised, free standing , dust and vermin proof, (degree of protection-IP42)with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels.Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated)As per Specification and direction of Engineer-in-Charge.</p> <p>Make :- Schneider/Legrand/L&T/Sterling as per direction of E/I.</p> <p>Each ACDB shall be comprising of the following equipment/components broadly:</p> <p>250 A TPN , MCCB, P-2 Incomer- 1nos.</p> <p>100A TPN MCB, Outgoing feeders - 02 Nos.</p> <p>63A TPN MCB, Outgoing feeders - 01 No.</p> <p>40A TPN MCB, Outgoing feeders - 02 Nos.</p> <p>CT, PT, MCBs, Ammeter, Voltmeter with Selector Switches,indication lamps(On- Off Trip Power On -- RYB),200A alumnium bus, 35kA for 1s</p> <p>Supply, Testing, Installation & Commisioning cost of ACDB (Indoor Type)</p>	1	Set		
10	<p>Manually operated Air Break Switch Gang operated 3-Phase 11Kv(Outdoor) Supplying/Receiving, Installation/Erection, Testing and Commissioning of Gang operated 3-Phase 11Kv,200A 40kA for 1Sec Manually operated Air Break Switch(AB Switch) with Earth Switch to be mounted on 9.0 metre steel pole.</p> <p>Make:- Reliable System/Sky Engineering/Transpower Switchgear Industries as per direction of E/I. 250 A TPN , MCCB, P-2 Incomer- 1nos.</p>	1	Set		

11	EMERGENCY POWER DISTRIBUTION BOARD (EDB).				
	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated Aux. Power dist. Board, fabricated out of 14 gauge CRCA sheet steel in cubical, compartmentalised, free standing, dust and vermin proof, (degree of protection-IP42) with reinforcement of suitable size angle iron, channel, T-iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels. Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated) As per Specification and direction of Engineer-in-Charge. Make :- Schneider/Legrand/L&T/ Sterling as per direction of E/I. Each EDB shall broadly comprise of the following equipment/components)				
	1000Amps, S.C.C 50kA for 1 Sec ACB (EDO)				
	Outgoing feeders:				
	1000Amps, S.C.C 50kA for 1 Sec ACB (EDO)				
	Indication lamps(On- Off Trip Power On -- RYB), 1000 A aluminium bus, s.c.c 50 KA for 1s				
	EDBs shall cater emergency power supply to all the buildings.				
	Supply, Testing, Installation & Commissioning cost of EDB.	1	Set		
12	FEEDER PILLAR FOR STREET LIGHTS				
	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated Distribution boards, fabricated out of 14 gauge CRCA sheet steel in cubical, compartmentalised, free standing, dust and vermin proof, (degree of protection-IP42) with reinforcement of suitable size angle iron, channel, T-iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels. Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated) As per Specification and direction of Engineer-in-Charge. Make :- Schneider/Legrand/L&T as per direction of E/I.				
	Each Feeder Pillar shall be comprising of the following equipment/components:				
	63A, TPN MCB S.C.C 10kA & 63A 4POLE RCCB Incomer 1no.				
	20A SPN MCB S.C.C 10kA Outgoing Feeders - 12 nos.				
	0-24 hrs timer switch with 3pole 415V 70A, AC3 duty powercontactor for auto switching operation of light fittings				
	Indication lamps(On- Off Trip Power On -- RYB)				

	Supply, Testing, Installation & Commissioning cost of Feeder Pillar for Street Lights.	1	set		
13	FEEDER PILLAR FOR PERIPHERAL LIGHTING OF BUILDINGS				
	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated Distribution boards, fabricated out of 14 gauge CRCA sheet steel in cubical, compartmentalised, free standing, dust and vermin proof, (degree of protection-IP42) with reinforcement of suitable size angle iron, channel, T-iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels. Approval shall be taken for each panel before fabrication. (All hardware like nuts and bolts used shall be Galvanized and Zinc passivated) As per Specification and direction of Engineer-in-Charge. Make :- Schneider/Legrand/L&T as per direction of E/I.				
	Each Feeder Pillar shall be comprising of the following equipment/components:				
	63A, TPN MCB S.C.C 10kA & 63A 4POLE RCCB Incomer 1no.				
	20A SPN MCB S.C.C 10kA Outgoing Feeders - 12 nos.				
	0-24 hrs timer switch with 3pole 415V 70A, AC3 duty powercontactor for auto switching operation of light fittings				
	Indication lamps(On- Off Trip Power On -- RYB)				
	Supply, Testing, Installation & Commissioning cost of Feeder Pillar for Peripheral Lighting of Buildings.	1	Set		
14	AUXILIARY POWER DISTRIBUTION BOARD TYPE-I				
	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated Aux. Power dist. Boards(Aux.PDB), fabricated out of 14 gauge CRCA sheet steel in cubical, compartmentalised, free standing, dust and vermin proof, (degree of protection-IP42) with reinforcement of suitable size angle iron, channel, T-iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels. Approval shall be taken for each panel before fabrication. (All hardware like nuts and bolts used shall be Galvanized and Zinc passivated) As per Specification and direction of Engineer-in-Charge. Make :- Schneider/Legrand/L&T as per direction of E/I.				
	Each PDB shall broadly comprise of the following equipment/components)				
	250A, TPN, MCCB (P-2), 35 kA for 1 sec-Incomer from normal supply				
	Outgoing feeders:				
	2 nos. 100A TPN MCCBs, 16 kA for 1 sec				
	10 nos. 63A TPN MCBs				

	Indication lamps(On- Off Trip Power On -- RYB),300 A aluminium bus , s.c.c 35 KA for 1s				
	PDBs shall cater power supply to all motorised equipment like, all 15A , 240V 3 pin power sockets, airconditoners, Heater, gyser, sump pumps,Lift services, ventilation fans,drling machines, water pumps, welding machines etc. as per need.				
	Supply, Testing, Installation & Commisioning cost of PDB	1	Set		
15	AUXILIARY POWER DISTRIBUTION BOARD TYPE-II				
	Design, Fabrication, Supply, Erection,Testing and commisioning of Powder coated Aux.Power dist. Boards(Aux.PDB) , fabricated out of 14 guage CRCA sheet steel in cubical, compartmentallised, free standing , dust and vermin proof, (degree of protection-IP42)with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels.Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated)As per Specification and direction of Engineer-in-Charge.Make :- Schneider/Legrand/L&T as per direction of E/I.				
	Each PDB shall broadly comprise of the following equipment/components)				
	250A, TPN , MCCB (P-2), 35 kA for 1 sec-Incomer from normal supply				
	Outgoing feeders:				
	1 no. 160A TPN MCCBs, 35 kA for 1 sec				
	2 nos. 100A TPN MCCBs, 16 kA for 1 sec				
	10 nos. 63A TPN MCBs				
	Indication lamps(On- Off Trip Power On -- RYB),200 A aluminium bus , s.c.c 35 KA for 1s				
	PDBs shall cater power supply to all motorised equipment like, all 15A , 240V 3 pin power sockets, airconditoners, Heater, gyser, sump pumps,Lift services, ventilation fans,drling machines, water pumps, welding machines etc. as per need.				
	Supply, Testing, Installation & Commisioning cost of Aux PDB Type-II	1	Set		
16	LIGHTING POWER DISTRIBUTION BOARD				
	Design, Fabrication, Supply, Erection,Testing and commisioning of Powder coated Lighting dist. Boards(LDB) , fabricated out of 14 guage CRCA sheet steel in cubical, compartmentallised, free standing , dust and vermin proof, (degree of protection-IP42)with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Cable gland plates shall be provided on top as well as bottom of the panels. Panels shall be treated with all anti-corrosive process before painting as per specification. Panels shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels.Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and				

	Zinc passivated)As per Specification and direction of Engineer-in-Charge.Make :- Schneider/Legrand/L&T as per direction of E/I.				
	Each PDB shall broadly comprise of the following equipment/components)				
	100A, TPN , MCCB (P-2), 16 kA for 1 sec-Incomer				
	Outgoing feeders:				
	12 nos. 40A TPN MCBs				
	Indication lamps(On- Off Trip Power On -- RYB),200 A aluminium bus , s.c.c 35 KA for 1s				
	LDBs shall cater power supply to 6-Way & 4-Way TPN Boards for lighting circuit.				
	Supply, Testing, Installation & Commisioning cost of LDB	1	Set		
Part-J PHE Works					
1	Supplying , installation, testing & commissionong of suitable capacity of and type of submersible pump set (1HP) cabable of clean filtered water from a deep tubewell at oa total head of 30 meter complete with control panel , gate valve , 60 mtr. of neoprane cable etc (Make: Crompton/KSB) all complete job as per direction of E/I.	1	Each		
2	Supplying , installation, testing & commissionong of suitable capacity of and type of submersible pump set (3HP) cabable of clean filtered water from a deep tubewell at oa total head of 30 meter complete with control panel , gate valve , 60 mtr. of neoprane cable etc (Make: Crompton/KSB) all complete job as per direction of E/I.	1	Each		
3	Supplying , installation, testing & commissionong of suitable capacity of and type of submersible pump set (5HP) cabable of clean filtered water from a deep tubewell at oa total head of 30 meter complete with control panel , gate valve , 60 mtr. of neoprane cable etc (Make: Crompton/KSB) all complete job as per direction of E/I.	1	Each		
4	Providing, fitting & fixing of 25 mm CPVC full Way valve all complete job as per direction of E/I.	1	Each		
5	Providing, fitting & fixing of 32 mm CPVC valve all complete job as per direction of E/I.	1	Each		
6	Providing, fitting & fixing of 40 mm CPVC valve all complete job as per direction of E/I.	1	Each		
7	Providing, fitting & fixing of 50 mm CPVC valve all complete job as per direction of E/I.	1	Each		
8	Providing, fitting & fixing of 65 mm CPVC valve all complete job as per direction of E/I.	1	Each		
9	Providing, fitting & fixing of 80 mm CPVC valve all complete job as per direction of E/I.	1	Each		
10	Providing, fitting & fixing of 100 mm CPVC valve all complete job as per direction of E/I.	1	Each		
11	Providing, fitting & fixing of 25 mm CPVC Union all complete job as per direction of E/I.	1	Each		
12	Providing, fitting & fixing of 32 mm CPVC Union all complete job as per direction of E/I.	1	Each		
13	Providing, fitting & fixing of 40 mm CPVC Union all complete job as per direction of E/I.	1	Each		
14	Providing, fitting & fixing of 50 mm CPVC Union all complete job as per direction of E/I.	1	Each		

15	Providing, fitting & fixing of 65 mm CPVC Union all complete job as per direction of E/I.	1	Each		
16	Providing, fitting & fixing of 80 mm CPVC Union all complete job as per direction of E/I.	1	Each		
17	Providing, fitting & fixing of 100 mm CPVC Union all complete job as per direction of E/I.	1	Each		
18	Providing, fitting & fixing of 50 mm CPVC Non Return Valve all complete job as per direction of E/I.	1	Each		
19	Providing, fitting & fixing of 110 mm UPVC Cowl all complete job as per direction of E/I.	1	Each		
20	Providing, fitting & fixing of PVC 110 mm SWR P- Trap Valve all complete job as per direction of E/I.	1	Each		
21	Providing, fitting & fixing of PVC 75 mm SWR P- Trap Valve all complete job as per direction of E/I.	1	Each		
22	Providing, fitting & fixing of PVC Floor Trap 110X110 mm dia all complete job as per direction of E/I.	1	Each		
23	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) of Make- Jaquar/ Cera/ Kohler/Marc with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures all complete job as per direction of E/I.	1	Each		
24	Providing and fixing water closet squatting pan (Indian type W.C.pan) of Make- Jaquar/ Cera/ Kohler/Marc with 100 mm sand cast Iron P or S trap, 10 litre low fixtures complete, including cutting and making good the walls and level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	Each		
25	Supplying, storing, handling, shifting, installation, testing and commissioning of CP flexible hose, spray, wall flange of Make- Jaquar/ Cera/ Kohler/Marc with all fittings and fixtures all complete job as per direction of E/I.	1	Each		
26	Providing, fitting & fixing of CP Bib Cock two in one Make- Jaquar/ Cera/ Kohler/Marc all complete job as per direction of E/I.	1	Each		
27	Providing and fixing white vitreous china battery based infrared sensor operated urinal of Make- Jaquar/ Cera/ Kohler/Marc of size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all complete job as per direction of E/I.	1	Each		
28	Providing and fixing Hand dryer of Make Dolphy/Alpine all complete job as per direction of E/I.	1	Each		
29	Providing and fixing CP Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms all complete job as per direction of E/I.	1	Each		
30	Providing and fixing CP liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour weighing not less than 105 gms all complete job as per direction of E/I.	1	Each		

31	Providing & fixing CP towel ring trapezoidal shape/ rod of 215 mm long 200 mm wide with minimum distance of 37 mm from wall face with concealed fittings arrangement of approved quality and colour weighing not less than 88 gms all complete job as per direction of E/I.	1	Each		
32	Providing and fixing S.S soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements,weighing not less than 106 gms	1	Each		
33	Providing and fixing S.S grating of approved quality and colour. Circular type 125 mm nominal dia.	1	Each		
34	Providing fixing testing and commissioning of cp brass shower mixer with provision of over head shower with 115 mm long bend pipe in built spout ,spout/shower selector with wall flange complete with all accessories as required and making good the walls wherever required Make- Hindware/parryware/cera/jaquar as per direction of E/I.	1	Each		
35	Providing fixing testing and commissioning of cp brass 115 mm long shower ARM with wall flange and pressure adjustable Shower Rose complete with wall accessories as required and making good the walls wherever required Make- Hindware/parryware/cera/jaquar as per direction of E/I.	1	Each		
36	Supplying, Storing, handling, shifting, installation, testing and commissioning of CP flexible hose, spary wall flange etc. complete Make- Hindware/parryware/cera/jaquar as per direction of E/I.	1	Each		
37	Providing and fixing straight type macfit single body push fit type WC pan connector with factory supplied spring loaded seal guard of Mcalpine,UK with intergral single mould sealing fins made of flexible EVA body,including bush/adoptor for use with C.I Pipe as supplied with the pan connector.	1	Each		
38	Providing Fixing Saith finish Stainless steel AiSI 316 grade wall mounted coat hook on door complete Make- Hindware/parryware/cera/jaquar as per direction of E/I.	1	Each		
39	Providing Fixing hand Shower (Health Fauct) (ABS Body) with 1mtr long Easy Flex Tube in Chrome Finish and wall hook. Make- Hindware/parryware/cera/jaquar as per direction of E/I.	1	Each		
40	Fixing of Storage type water heater/ Geyser with required accessories like 15 mm CP angle valve on inlet , heavy duty reinforced flexible PVC connector for cold water line and flexible CP brass connector with CP checkout for hot water line, CPVC line connection, MS bracket with two coats of enamel paint, anchor fastners etc to hang the units, providing and fixing of 16 A 3 Pin plug of , etc complete as required. Make- Hindware/parryware/cera/jaquar as per direction of E/I. Capacity 15 Liters	1	Each		
41	Fixing of Storage type water heater/ Geyser with required accessories like 15 mm CP angle valve on inlet , heavy duty reinforced flexible PVC connector for cold water line and flexible CP brass connector with CP checkout for hot water line, CPVC line connection, MS bracket with two coats of enamel paint, anchor fastners etc to hang the units, providing and fixing of 16 A 3 Pin plug of , etc complete as required. Make- Hindware/parryware/cera/jaquar as per direction of E/I. Capacity 25 Liters	1	Each		

42	Providing and installing of automatic water level controller for sensor for overhead tank with buzzer indicator including connection testing, commissioning etc as required all complete job as per direction of EI.	1	Each		
43	Providing & Fixing water purifier cum water cooler made of stainless steel having storage capacity of 40 liter & cooling capacity 40 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge(Make-Aquagaurd/Eureka Forbes /Kent)	1	Each		
44	Supplying and fixing Water Purifier with R.O & U.V :- Water Purifier of 15 Ltr. with with R.O & U.V Technology heavy duty all complete job as per direction of EI. (Make-Aquagaurd/Eureka Forbes /Kent)	1	Each		
45	Supplying 100mm dia. Submersible pump sets confirming to IS 8034 and motor cconfirming to IS 9283. Pump shall be suitable for various delivery head and discharge with stainless steel pump shaft ant polypropylene/ norylimpeller. Motor suitable for working on 415 V+10%, 3PH, 50 HZ, AC supply with cable guard, thurst carbon/ fibre bearing to withstand entire hydraulic thrust, water proof winding shall be provided. The pump set shall be suitable for direct coupling. Pump shall have suitable outlet as per manufacturers design. Anti thrust stream lined no return valve shall be provided with pump. 3 m submersible copper conductor cable in single/ double run and nylon rope as required length shall be provided with each pump. Submersible pump set 100mm dia 2 HP. all complete job as per direction of E/I. Make:KIRLOSKERX/HAVELS/CROMPTON	1	Each		

विशेष शर्त—

- कोटेशन दाता सीलबंद लिफाफे में कोटेशन समर्पित कर सकते हैं।
- कोटेशनदाताओं को अपना दर (सभी करें, GST एवं ढुलाई व्यय के साथ) अंक एवं अक्षरों में उद्धृत करना होगा। सामग्रियों की आपूर्ति बिहार राज्य शैक्षणिक आधारभूत संरचना विकास निगम (BSEIDC) के अंतर्गत विभिन्न कार्य स्थलों पर किया जाना है।
- कोटेशनदाता द्वारा अपने फर्म का रजिस्ट्रेशन नं०, GST रजिस्ट्रेशन नं० एवं PAN समर्पित करना अनिवार्य है।
- कोटेशन में निहित मदों के लिए संबंधित प्रतिष्ठान/फर्म/आपूर्तिकर्ताओं द्वारा मदवार दर समर्पित किया जाएगा।
- सामग्रियों के इकाई दर के निर्धारण हेतु यह कोटेशन आमंत्रित की गई है। सामग्रियों की आपूर्ति Bulk में ली जाएगी।
- विशेष सूचना के लिए इस कार्यालय का सूचनापट्ट या वेबसाइट www.prdbihar.gov.in एवं इस कार्यालय का वेबसाइट www.bseidc.in पर देखें अथवा अधोहस्ताक्षरी के कार्यालय में कार्यावधि समय 10:00 बजे पूर्वाह्न से अपराह्न 05:00 बजे तक संपर्क किया जा सकता है।

अधीक्षण अभियंता
BSEIDC, पटना

28/11/22