Bill of Quantities (BOQ)

Construction of Area Administration Office (AAO) Building Rajapur, Bardiya

IFB No.: 314925801/01/AAO/NCB/W/B/2083/084

Provisional Sum					
SL. No.	**Item Description**	**Unit**	**Quantity**	**Unit Rate (NPR)**	**Amount (NPR)**
PS.1	Provisional sum: Insurance for the loss of damage to works, plant,material,equipment property and personnel injury or death, including third party insurance as described .	PS	1.00	1,50,000.00 One lakh fifty thousand rupees only.	1,50,000.00 One lakh fifty thousand rupees only.
PS.2	Provide, erect and maintain project site notice boards as per insruction of Site engineer and specification all complete.	Nos	1.00	3,500.00 Three thousand five hundred rupees only.	3,500.00 Three thousand five hundred rupees only.
PS.3	LAB TEST :- Carrying out differen laboratory tests of construction material like cement, rod ,bricks ,sand ,aggregate, concrete cubes etc ,during entire construction period as per specification and instruction of engineer .	PS	1.00	1,00,000.00 One lakh rupees only.	1,00,000.00 One lakh rupees only.
PS.4	Prepration of as Built Drawing And Maintainance Plan all complete works as per drawing ,specification and as per instruction of Engineer.	Job	1.00	50,000.00 Fifty thousand rupees only.	50,000.00 Fifty thousand rupees only.
PS.5	Relocation of public utilities/services and repairing for existing infrastructure (Drinking Water Supply pipe, houses, electricity , Temple, Foot staircase, Foot trail etc) as instructed by engineer (SS/SP-103).	Ls	1.00	20,000.00 Twenty thousand rupees only.	20,000.00 Twenty thousand rupees only.
	Total provisional sums				3,23,500.00 Three lakh twenty-three thousand five hundred rupees only.

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.1	Civil works EARTH WORKS: Site Clearance and grass cutting, root digging, breaking sods, clearing ground and carrying away from site as per drawing, specification and as instructed by Engineer .	sqm	200.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.2	Earthwork in excavation in all type of soil including disposal up to 10 m lead and 1.5 m lift using hydraulic excavator as per drawing, specification and as instructed by Engineer .	cum	224.47			
1.3	Earth back filling in foundation trenches & floor in 150 mm thick layers with sprinkling water, ramming & consolidating (using the soil received from the same site) as per drawing, specification and as instructed by Engineer .	cum	229.96			
1.4	Earth filling in ground and inside the building 150 mm thick layers with sprinkling water, ramming & consolidating (Imported fill material) as per drawing, specification and as instructed by Engineer .	cum	722.56			
1.5	Brick Masonry works :First class Brick work in 1:4 c/s mortar with approved quality bricks in line & level with necessary scaffolding, wetting the bricks, proper packing the joints & curing the works with all complete as per drawings , specifications and as instructed by Engineer.	cum	204.60			
1.6	Machine Made Brick Masonry Work in Substructure in 1:4 Cement-Sand Mortar using approved quality machine-made bricks, laid in line, level and plumb, including necessary scaffolding, wetting of bricks, proper bonding and packing of joints, curing of masonry and all complete as per drawings, specifications and instructions of the Engineer.	cum	25.70			
1.7	Providing and laying of stone soling with sand packing the joint and watering including dressing of base up to the approved levels as per drawing, specification and as directed by Engineer.	Cum	64.52			
1.8	PCC & RCC works: PCC (1:3:6) M10 Works in foundation and floor base including haulage, supply of materials, fixing the form works, supply of required labours all complete as per drawing, specification and as instructed by Engineer.	cum	11.38			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.9	PCC (1:2:4) M15 Works in foundation and floor base including haulage, supply of materials, fixing the form works, supply of required labours all complete as per drawing, specification and as instructed by Engineer.	cum	34.36			
1.10	PCC (1:1.5:3)-M20 Works in other structures, deck slabs, beams including haulage, supply of materials, supply of required labours all complete as per drawing, specification and as instructed by Engineer.	cum	226.17			
1.11	Fixing Torsteel/TMT Reinforcement Grade-1 (Fe 500) conforming to I.S. 1786-1985 in R.C.C. work including cleaning, cutting, bending, placing in position on the basis of drawings, specifications, etc. Approved and tested Brands .	ton	37.76			
1.12	Formwork for centering & shuttering for RCC works in Column, beam, Slab, Decks , band etc with approved material such as water proof plywood, local wood etc.with necessary props, staging & removal of forms all complete as per drawing, specification and as directed by Engineer.	sqm	1,820.30			
1.13	Plaster and finishing works: 12.5 mm thick cement sand plaster in 1:4 c/s in Internal wall/Exterior Wall, floors etc. in line, level, plumb and smoothen surface including ranking the joints, cleaning, wetting, curing and scaffolding etc as per drawing , specification and as instructed by Engineer.	sqm	2,174.31			
1.14	12.5mm thick cement sand plaster in 1:3 c/s in required line and perfect smooth level on Ceiling ,including necessary scaffolding and proper curing for 15 days as per drawing ,specification andas instructed by Engineer.	sqm	652.05			
1.15	Flooring works: 38 mm th Plain cement screeding work in 1:2:4 with cement, sand and crushed aggregate including mixing, laying, compacting and wetting all complete in perfect line and level as per drawings, specifications and as instructed by Engineer .	sqm	318.54			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.16	3mm Punning work in cement mortar (1:1) on floor, wall and in skirting as per drawing, specification and as instructed by Engineer.	sqm	347.91			
1.17	Supplying and Fixing 16mm thick Good Quality Marble in 20mm thick Cement Sand Mortar in 1:2 ratio, including laying, rubbing, grinding and polishing of marble surface, complete in all respects as per drawing, specification and as instructed by the Engineer.	sqm	217.06			
1.18	Supplying and Laying of Non slipped Glazed tile on Floors in cement sand mortar (1:4) ratio with approved colour on floors as per drawing, specification and as instructed by Enginner.	sqm	45.83			
1.19	Supplying and Laying of Glazed porceline clay tiles on walls in cement sand motar (1:4) ratio with approved colour on wall as per drawing , specification and as instructed by Engineer.	sqm	121.99			
1.20	Opening works: Fabrication and installation of Salwood framing with different sizes (Base on frame 900 * 2100 mm)as per drawings , specifications and as instructed by Engineer.	cum	1.02			
1.21	Fabrication and installation of panelled door shutter with in salwood frame (based on shutter size 1.07 x 1.982 = 2.12 sqm) as per drawing, specification and as instructed by Engineer.	sqm	3.60			
1.22	Providing, supplying and fixing uPVC sliding windows with ventilator and fly mesh shutter, frame section 88×67 mm, sash section 58×36 mm, glazed with 5 mm thick clear glass, including all necessary fittings, fixtures, locking arrangements, handles, rollers, sealing, and finishing, complete as per drawing and specification and as directed by the Engineer	sqm	139.58			
1.23	Aluminium Framed Fixed Partition of Section of 101 x 40 x 1.3 mm including 5 mm thick Glass or Board 9mm Laminated (8 kg. per Sqm) as per drawing, specifiction and as instructed by Engineer.	sqm	10.40			
1.24	Supplying and fitting 32mm thick modern shutter teak ply readymade door shutter with all neccessary hardware all complete.	sqm	40.58			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.25	Painting works: Supply and apply 2 coats of two coat of prepared enamel paint with over one coat of primer as per drawing, specification and as instructed by Engineer.	sqm	272.73			
1.26	Supply and apply two coat of prepared plastic emulsion paint with over one coat of primer as per drwaing, specification and as instructed by Engineer.	sqm	1,954.28			
1.27	Supply and apply 2 coats of two coat of weather coat paint over one coat of primer Exterior Face as per drawing, specification and as instructed by Engineer.	sqm	821.44			
1.28	Supply and apply 2 coats of double boiled linseed oil paint with washing and cleaning of surface by spirit as per drawing, specification andas instructed by Engineer.	sqm	233.64			
1.29	Metal works: Supplying & fitting Collapsible gate with a coat of primer as per drawing,specification andas instructed by Engineer.	Kg	256.05			
1.30	Supply, Fitting and fixing of MS Grill made of 12x12mm solid core square rod with4.5x20mm metal sheet frame including all necessary accessories as per drawing, specification and as instructed by Engineer.	Kg	1,864.90			
1.31	Supply, Fitting and fixing MS sections and sheet for MS Railing, Fencing Bar and roof truss with one coat primer including all necessary MS base plate and Shoe angles anchore bolts leas sheeting as per drawing, specification and as instructed by Engineer.	Kg	578.60			
1.32	(Staircase case stainless steel pipe railling) Supply and fixing of stainless steel pipe railling with 2" dia.Hand rail pipe vertical 1.5" dia pipe every three step distance with 34" height and 3/4" dia. Pipe 4 line horizontal pipe and all complete works.	Rm	20.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.33	MISCELLANEOUS WORKS: Supply and apply of Elastrocrete cementitious elastomeric water proofing coating 2 components capacity 1.8 lit for 1sqm for 2 coat including all necessary work complete as per drawing, specification and as directed by Engineer.	sqm	217.73			
1.34	Providing and fixing of 26 guage (0.35 mm thick)Colored CGI sheet for roofing with necessary fixtures as per drawing, specification and as instructed by Engineer.	sqm	36.89			
1.35	Dismantling of R.C.C. or R.B.C. works and removal of debris and materials within 1KM distance, including stacking of serviceable materials, disposal of unserviceable materials, and cleaning of site all complete as per instruction.	LS	1.00			
1.36	Sanitary works: Providing and fixing 580 mm long white glazed porcelain clay Orissa pan complete with 10.0-litre capacity white glazed porcelain clay low-level flushing cistern with internal PVC fittings and complete accessories, 32 mm diameter × 600 mm long CP flushing pipe, and ½ inch × 18 inch (approximately 450 mm) PVC pipe connector, including all necessary brackets, fittings, jointing materials, connections, installation, testing, and commissioning, complete in all respects as per the specifications and instructions of the Site Engineer. Make: Cera/Era/Essel/Jaquar or equivalent approved quality.	Set	5.00			
1.37	Providing and fixing white glazed porcelain clay EWC (Constellation commode) complete with P-trap or S-trap as required at site, matching seat cover, and all necessary fittings, connectors, fixing accessories, and jointing materials, including installation, connection to the soil pipe, testing, and commissioning, complete in all respects as per the specifications and instructions of the Site Engineer. Make: Hindware/Paryware/Somany/Cera or equivalent approved quality.	Set	1.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.38	Providing and fixing 500 × 400 mm white glazed earthenware counter-type oval wash basin complete with 15 mm CP basin mixer with aerator, 15 mm CP angular cock (1 No.), 15 mm CP connection pipes with couplings at both ends, 32 mm CP bottle trap, 32 mm CP waste coupling with CP chain and rubber plug, ½ inch × 18 inch (approximately 450 mm) PVC pipe connector, zinc-coated screws, brackets, and all necessary fittings and accessories, including installation, connection, testing, and commissioning to ensure proper and ready-to-use operation, complete in all respects as per the specifications and instructions of the Site Engineer. Make: Cera/Era/Essel/Jaquar or equivalent approved quality.(Public Toilet)	Set	6.00			
1.39	Small Flat back White glazed urinal (46.5x35.5x26.5)cm all complete set(Cera/Era/Essel/Jaquar or equivalent).	Set	3.00			
1.40	CP Bib Cock. (Pan, Wash & External Water Points) (Cera/Era/Essel/Jaquar or equivalent).	Set	6.00			
1.41	450x450x300 mm size 16 gauge thickness Stainless Steel 304 Sink with sink mixer, two 15 mm CP connectors, angle valve 2 Nos, 32 mm. CP Bottle Trap, waste coupling with testing and ready for operation (Hot and Cold). (NS Qualified SS-304 or equivalent)	Set	1.00			
1.42	CP Toilet Paper Holder with Flap, heavy. (Cera/Era/Essel/Jaquar or equivalent). (All Water Closets)	Set	1.00			
1.43	CP Soap Dish, Polyurethane, Heavy. (Cera/Era/Essel/Jaquar or equivalent).	No.	7.00			
1.44	15mm CP Commode Spray, heavy type and 1.2m CP flexible pipe. (Cera/Era/Essel/Jaquar or equivalent) (All Water Closets)	No.	1.00			
1.45	20x600mm CP Towel Rod Heavy. (Cera/Era/Essel/Jaquar or equivalent) (For Shower, Sluice and Scrub)	No.	1.00			
1.46	5 mm thick looking mirror of Modi or approved make with CP mirror screws and clips of size 600x450 mm with CP Glass shelf.	No.	6.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.47	PVC Multi-floor trap with 5" CP grating.	No.	6.00			
1.48	110 mm PVC Rain Inlet with cover.	No.	3.00			
1.49	110 mm PVC Vent Cowl.	No.	4.00			
1.50	Water supply Installation: CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately. All pipelines need to be installed only as per approved shop drawings.(Astral/Marvel/Aashirvad/Nuplast or equivalent) CPVC). -32 mm	Rm	30.00			
1.51	CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately. All pipelines need to be installed only as per approved shop drawings.(Astral/Marvel/Aashirvad or equivalent) CPVC). - 25 mm	Rm	50.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.52	CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately. All pipelines need to be installed only as per approved shop drawings.(Astral/Marvel/Aashirvad or equivalent) CPVC). - 20 mm	Rm	150.00			
1.53	CPVC Ball Valve (Astral/Marvel/Aashirvad or equivalent) Valves):- 32 mm	No.	2.00			
1.54	CPVC Ball Valve (Astral/Marvel/Aashirvad or equivalent) Valves):- 25 mm	No.	2.00			
1.55	CPVC Ball Valve (Astral/Marvel/Aashirvad or equivalent) Valves):- 20 mm	No.	2.00			
1.56	1000 litres capacity Hilltake/Nepatop/Kishan or equivalent) brand exta heavy HDPE Vertical Water Storage Tank complete with stand, switch, inter-connection, overflow, washout, Float valves and vents.	No.	2.00			
1.57	Electric centrifugal multistage water pump with motor of capacity 100 liters per minute at 40m head (approx. 2 HP motor - 1 Phase) complete with starter, electric cable, GM Check valve, automatic pump start/off switch with pressure sensors, high and low level sensors and cable etc. (Pedrollo/Kirloskar/Lubi or equivalent))	No.	1.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.58	SEWER, VENT, RAIN AND WASTE WATER INSTALLATION: uPVC SWR (Soil, Waste, Rain)pipes with all necessary ring gaskets, fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct or hung to ceilings as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately. (Astral/Marvel/Aashirvad or equivalent) PVC) - 110 mm ED	Rm	30.00			
1.59	uPVC SWR (Soil, Waste, Rain)pipes with all necessary ring gaskets, fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct or hung to ceilings as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately. (Astral/Marvel/Aashirvad or equivalent) PVC) - 75 mm ED	Rm	20.00			
1.60	uPVC SWR (Soil, Waste, Rain)pipes with all necessary ring gaskets, fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct or hung to ceilings as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately. (Astral/Marvel/Aashirvad or equivalent) PVC) - 50 mm ED.	Rm	25.00			

Construction work
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SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.61	Portable fire extinguiser with pressure guage consisting of welded MS cylindrical body, squeeze lever discharge valve fitted with pressure indicating gauge internal discharge tube, 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket, conforming to Indian Standards and as per ITC approved list, as follows, finished externally with red enamel paint and fixed to wall with brackets complete with initial charge. (Safepro/Eversafe/Padmini) 5 kg Fire extingusher ABC type Minimax, eversafe or equivalent	nos	2.00			
1.62	Electrical works: UPS System: Supply, delivery, installation and commissioning of 1 phase, 230 volts, 50/60Hz, 5kVA/5kW-180V, sine wave uninterruptible power supply (UPS), 1phase in 1 phase out online double conversion, power factor 0.9, efficiency > 88% at full load, protection class IP20, Overload Capability: 10min on 125% load. Harmonic distortion < 3% on full load, Control Panel: Multifunction LCD status and control console, Alarm: Alarm when on bettery: distinctive low battery alarm: overload continuous tone alarm, including IEC 60320 C13 to schuko power cable, IEC 60320 C13 to C14 power cable, RS-232 configuration cable, USB cable, including the cost of Lead - acid battery backup for at least 30 minutes on 80% load. The UPS shall contain a internal bypass (automatic and manual). Conformance to CE, and EN/IEC 62040 as per drawing, specification, and instruction all complete. [Make: APC (Schneider), EATON or equivalent.]	Set	1.00			
1.63	Electrical Distribution Boards: Supply, delivery, installation, testing, and commissioning of 16 way TPN DB (double door) made of powder coated 14SWG CRCA Sheet, with necessary cable labeling earth links, neutral links, inverter links, Din Rails conforming IS13032, IS8632, etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	2.00			
1.64	Electrical Distribution Boards: Supply, delivery, installation, testing, and commissioning of 12 way TPN DB (double door) made of powder coated 14SWG CRCA Sheet, with necessary cable labeling earth links, neutral links, inverter links, Din Rails conforming IS13032, IS8632, etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	1.00			

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1.65	MCB's: Supply, delivery, installation, testing, and commissioning of 40A four pole miniature circuit breaker (MCB), rated short circuit capacity 10KA conforming IS/IEC 60898-1 etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	1.00			
1.66	MCB's: Supply, delivery, installation, testing, and commissioning of 6-32A four pole miniature circuit breaker (MCB), rated short circuit capacity 10KA conforming IS/IEC 60898-1 etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	6.00			
1.67	MCB's: Supply, delivery, installation, testing, and commissioning of 6-32A double pole miniature circuit breaker (MCB), rated short circuit capacity 10KA conforming IS/IEC 60898-1 etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	11.00			
1.68	MCB's: Supply, delivery, installation, testing, and commissioning of 6-32A single pole miniature circuit breaker (MCB), rated short circuit capacity 10KA conforming IS/IEC 60898-1 etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	72.00			
1.69	RCCB's: Supply, delivery, installation, testing, and commissioning of 25A, 30mA double pole residual current circuit breaker (RCCB), rated short circuit capacity 10KA conforming IS/IEC 60898-1 etc. all complete. [Make: Scheneider, Legrand or equivalent.] Note: Refer Electrical drawing for layout & installation details.	Set	8.00			
1.70	Power Cables: Supply, delivery, laying, commissioning and testing of 4 core 10 sq. mm copper unarmored XLPE Insulation, Flexible Power Cable in 20/25 dia. HDPE conduit as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details.	mtr	30.00			

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1.71	Power Cables: Supply, delivery, laying, commissioning and testing of 4 core 6 sq. mm copper unarmored XLPE Insulation, Flexible Power Cable as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details.	mtr	15.00			
1.72	Power Cables: Supply, delivery, laying, commissioning and testing of 2 core 6 sq. mm copper unarmored XLPE Insulation, Flexible Power Cable as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details.	mtr	35.00			
1.73	Power Cables: Supply, delivery, laying, commissioning and testing of 2 core 4 sq. mm copper unarmored XLPE Insulation, Flexible Power Cable as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details..	mtr	15.00			
1.74	Power Cables: Supply, delivery, laying, commissioning and testing of 6 sq. mm copper FRLSH PVC Insulation, Flexible Wire as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details.	mtr	20.00			
1.75	Power Cables: Supply, delivery, laying, commissioning and testing of 4 sq. mm copper FRLSH PVC Insulation, Flexible Wire as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details.	mtr	50.00			
1.76	Power Cables: Supply, delivery, laying, commissioning and testing of 2.5 sq. mm copper FRLSH PVC Insulation, Flexible Wire as per relevant IS codes and standards and as per drawing, specification and instruction all complete. [Make: Pioneer, Litmus or equivalent.] Note: Refer Power Distribution Schematic Layout for details.	mtr	15.00			

Construction work
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SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.77	Point Wiring: Supply, delivery, laying, testing and commissioning for concealed/surfaced Wiring of light/fan sub mains using 2x2.5 sq. mm., 1100 voltage grade with FRLSH insulation, bunch copper conductor in a 20mm dia. HDPE conduit including all conduit accessories via junction box along with all civil works, wire mesh etc. from distribution board to light switch board as per drawing specifications and instruction all complete. [Make : Pionner, Rathi or equivalent.] Approx Length - 12 meter	point	60.00			
1.78	Point Wiring: Supply, delivery, laying, testing and commissioning for concealed/surfaced Wiring of light/fan points using 2x1.5 sq. mm., 1100 voltage grade with FRLSH insulation, bunch copper conductor in a 20mm dia. HDPE conduit including all conduit accessories via junction box along with all civil works, wire mesh etc. from switch board to first light point and loop point as per drawing specifications and instruction all complete. [Make : Pionner, Rathi or equivalent.] Approx Length - 7 meter	point	130.00			
1.79	Point Wiring: Supply, delivery, laying, testing and commissioning for concealed/surfaced Wiring of power sub mains using 2x4 + 1x2.5 sq. mm., 1100 voltage grade with FRLSH insulation, bunch copper conductor in a 20mm dia. HDPE conduit including with all conduit accessories via junction box along with all civil works, wire mesh etc. from distribution board to first power point as per drawing specifications and instruction all complete. [Make : Pionner, Rathi or equivalent.] Note: workstation power point wiring (2nos 6/13/16A socket) is/shall considered as a single point only. Approx Length - 12 meter	point	32.00			

Construction work
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SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.80	Point Wiring: Supply, delivery, laying, testing and commissioning for concealed/surfaced Wiring of power loop points using 2x2.5 + 1x1.5	point	26.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
	sq. mm., 1100 voltage grade with FRLSH insulation, bunch copper conductor in a 20mm dia. HDPE conduit including with all conduit accessories via junction box along with all civil works, wire mesh etc. from first power point to loop power point as per drawing specifications and instruction all complete. [Make : Pionner, Rathi or equivalent.] Note: workstation power point wiring (2nos 6/13/16A socket) is/shall considered as a single point only. Approx Length - 7 meter					
1.81	Switches: Supply, installation, testing and commissioning of 6 A, 2 way, 1 Modular, switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	30.00			
1.82	Switches: Supply, installation, testing and commissioning of 6 A, 1 way, 1 Modular, switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	30.00			
1.83	Switches: Supply, installation, testing and commissioning of 6 A, 1 way, 2 Modular, switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	30.00			
1.84	Switches: Supply, installation, testing and commissioning of 6 A, 1 way, 3 Modular, switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	30.00			
1.85	Switches: Supply, installation, testing and commissioning of 6 A, 1 way, 4 Modular, switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	30.00			

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.86	Outlets: Supply, installation, testing and commissioning of 6/13 A, 2 Modular, 3 pin universal socket shuttered with switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	40.00			
1.87	Outlets: Supply, installation, testing and commissioning of 16 A, 2 Modular, 3 pin universal socket shuttered with switch including with all accessories, GI metal box along with all civil works etc. as per drawing specifications and instruction all complete. [Make: Legrand, Schneider or equivalent.]	nos	40.00			
1.88	Luminairies and Fixtures: Supply, delivery, installation, testing and commissioning of 6 watt Led recessed/surfaced panel down light fixtures with backlit, voltage range : 110V-300V, housing : mould die-cast, trim frame: die cast Al, trim shape : square/circle, luminous efficiency : 100lm/w, IP 20 (or as mentioned), Drive : Non-dimmable, P.F. 0.9, Flicker Free Light. THD < 10%, CRI 80, SPD : 2.5 KV, Burning Life > 40,000 - 50,000 hours, diffuser : Flicker Free, compiling to IS:16102 Part-2, IS: 16103 Part-1, IS: 16103 Part-2, IS:16108 having manufactures's warranted from authorized dealer/manufacture for minimum period of 2 years.[Make: Jaquar, Legero or equivalent.]	Set	15.00			
1.89	Luminairies and Fixtures: Supply, delivery, installation, testing and commissioning of 12 watt Led recessed/surfaced panel down light fixtures with backlit, voltage range : 110V-300V, housing : mould die-cast, trim frame: die cast Al, trim shape : square/circle, luminous efficiency : 100lm/w, IP 20 (or as mentioned), Drive : Non-dimmable, P.F. 0.9, Flicker Free Light. THD < 10%, CRI 80, SPD : 2.5 KV, Burning Life > 40,000 - 50,000 hours, diffuser : Flicker Free, compiling to IS:16102 Part-2, IS: 16103 Part-1, IS: 16103 Part-2, IS:16108 having manufactures's warranted from authorized dealer/manufacture for minimum period of 2 years. [Make: Jaquar, Legero or equivalent.]	Set	45.00			

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.90	Luminairies and Fixtures: Supply, delivery, installation, testing and commissioning of 18 watt Led recessed/surfaced panel down light fixtures with backlit, voltage range : 110V-300V, housing : mould die-cast, trim frame: die cast Al, trim shape : square/circle, luminous efficiency : 100lm/w, IP 20 (or as mentioned), Drive : Non-dimmable, P.F. 0.9, Flicker Free Light. THD < 10%, CRI 80, SPD : 2.5 KV, Burning Life > 40,000 - 50,000 hours, diffuser : Flicker Free, compiling to IS:16102 Part-2, IS: 16103 Part-1, IS: 16103 Part-2, IS:16108 having manufactures's warranted from authorized dealer/manufacture for minimum period of 2 years. [Make: Jaquar, Legero or equivalent.]	Set	70.00			
1.91	Luminairies and Fixturres: Supply, delivery, installation, testing and commissioning of decorative mirror light, 2 nos of 5 watt Led Bulb with E27 base, 3000K/6000K, Mounting: Wall, Material: Light Opal Glass and Metal, Colour: Chrome Finish, as per drawing, specification, and instruction all complete. [Make: Jaquar, Legero or equivalent.]	Set	6.00			
1.92	Luminaries and Fixtures: upply, delivery, installation, testing and commissioning of Low loss 50-55W, 3 Blade, 48)/52) ceiling fan with Rotary Dimmer/regulator of minimum 400W as per drawing, specification and instruction all complete. [Make: Havells and Bajaj or equivalent.]	Set	9.00			
1.93	IP Based Tel, Data Networking and CCTV Surveillance System: Supply, delivery, installation, testing, and Commissioning of VoIP PBX with 50 users, 25 Concurrent calls, FXO/BRI ports - 8 nos, GSM/3G4G port - 4 nos, ethernet interfaces - 2X(10/100/1000 Mbps) and 1TB Hard disk included. The IP PBX shall support SIP Telephony (Call Forwarding, Transfer, Monitoring, Parking, Pickup Merge, Queue, Ring Group, Paging/ Intercom, Conference, CDR, Recording, DND, DID, etc), Boss-Secretory, Music on Hold, Voicemail and other features as per drawing, specifications and instruction all complete. [Make: Yeastar, Cisco or equivalent.]	Set	1.00			

Construction work
CPV: 45000000-7 - Construction work

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.94	IP Based Tel, Data Networking and CCTV Surveillance System: Supply, delivery, installation, and commissioning of indoor wall mounted access points wtih 1X10 /100 /1000 BASE - Uplink Port and 4 nos of 10/100/1000BASE Down Link Port, 4 spatial stream and 1.775 Gbps wireless throughtput as per drawing, specification and instruction all complete. [Make: Ruijie, Grandstream or equivalent.]	Set	2.00			
1.95	IP Based Tel, Data Networking and CCTV Surveillance System: Supply, delivery, installation, testing, and Commissioning of modular RJ45 outlets including modular plate and GI Metal Box including connections etc. and all civil works complete and making necessary connections as required. [Make: Schneider, Legrand or equivalent.]	nos	26.00			
1.96	IP Based Tel and Data Networking System: Supply, delivery, installation, and commissioning of 4-Port PoE unmanaged switch, 4x10/100/1000 Mbps PoE ports, 2x Giagbit uplink ports, 2x1000 Mbps SFP port, minimum 120W PoE budget, Supports IEEE 802.3 af/at/bt, as per drawing, specification and instruction all complete. [Make: Ruijie, Grandstream or equivalent.]	Set	1.00			
1.97	IP Based Tel and Data Networking System: Supply, delivery, installation, and commissioning of 8-Port PoE unmanaged switch, 8x10/100/1000 Mbps PoE ports, 2x Giagbit uplink ports, 2x1000 Mbps SFP port, minimum 120W PoE budget, Supports IEEE 802.3 af/at/bt, as per drawing, specification and instruction all complete. [Make: Ruijie, Grandstream or equivalent.]	Set	1.00			
1.98	IP Based Tel and Data Networking System: Supply, delivery, installation, and commissioning of 16-Port Layer 2 managed Giagbit switch, 16x10/100/1000 Mbps RJ45 ports, 2 x SFP port, Supports IEEE 802.3af/at/bt, as per drawing, specification and instruction all complete. [Make: Ruijie, Grandstream or equivalent.]	Set	2.00			

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.99	IP Based Tel and Data Networking System: Supply, delivery, installtion of 4/6U networking rack with redundant dual power supply modules, patch panel, patch chrod, cable manager and Quad Fan etc. as per drawing, specification and instruction all complete. [Make: Ruijie, Grandstream or equivalent.]	Set	2.00			
1.100	IP Based Tel and Data Networking System: Supply, delivery, laying, testing, and Commissioning for concealed/surface wiring of IP Telephone and Data outlet with CAT 6 U/UTP 4 pair Pure Cu cable with LSZH insulation of 23 AWG in a standard 20mm dia HDPE Conduit including all conduit accessories via junction box along with all civil works. The cable shall conform to IEC 11801, EN 50173-1 and EIA 568C. The cable shall be laid from each point to hub/network rack and then to the server room as per the drawing specification all complete. [Make: Panduit, Systemx or equivalent.]	mtr	380.00			
1.101	Earthing and Lightining Protection System: Supply, delivery and installation of UL Listed and CPRI Tested maintenance free ,Low carbon copper coated earth rod of 3 metre electrode having diameter of 14.2 mm with copper coating thickness of 250micron tested as per IEC 62561-2 as per drawing, specification and instruction all complete.	nos	1.00			
1.102	Earthing and Lightining Protection System: Supply, delivery and installation of Universal clamp made of SS to connect rod with flat conductor as per drawing, specification and instruction all complete.	nos	1.00			
1.103	Earthing and Lightining Protection System: Supply, delivery and installation of Earth conductivity enhancing compound shall be of 25 kg/pit tested as per IEC 62561-7, TCLP tested as per drawing, specification and instruction all complete.	nos	2.00			
1.104	Earthing and Lightining Protection System: Supply, delivery and installation of the above arrangements shall be provided with Heavy duty earth chamber cover with frame to ensure the safety of the earthing system as per drawing, specification and instruction all complete.	nos	1.00			

Construction work **CPV: 45000000-7 - Construction work**						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.105	Miscellaneous Work: Providing and placing concrete grade M25 in RCC handhole including 3 mtr depth, 150 mm dia earth excavation, backfilling,reinforcement, soling,PCC, and Cast Iron Cover with Client Logo and date all complete as per drawing, specification and instriction all complete.	Set	1.00			

Total Item Price	
VAT (13.00%)	
Grand Total	