

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: DEMOLITION WORKS				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	Demolition of existing brick / block wall -150-300MM at locations as required during execution to accommodate design changes inclusive of lintels/concrete bands if any and making good the damaged areas with cement plaster and carting away all debris away from site to designated locations by vendor . No additional costs shall be payable for leads and lifts. (Location : GMP Tablet, R.M Block,Back side Building-1&2, Beta Block)	itemH1Code1	4693	SMT
2	Dismantling, removing and carting away existing doors & door frames at locations as required during execution. (Location : GMP Tablet, R.M Block,Back side Building-1&2, Beta Block)	code1.02	126	NOS
3	Dismantling of existing wall cladding/Dado / flooring at locations as required during execution and carting away debris from site. (Location : GMP Tablet, R.M Block,Back side Building-1&2, Beta Block)	itemH1Code2	6682	SMT
4	Chipping of existing PCC Floor at locations as required during execution to accommodate new hard flooring and carting away all debris from site. Average thickness of screeding 50-75mm+/-5mm (Location : GMP Tablet, R.M Block,Back side Building-1&2, Beta Block)	itemH1Code3	6682	SMT
5	Dismantling/removal of existing gyp / grid ceiling at locations as required during execution to accommodate design changes and carting away all debris away from site. No additional costs shall be payable for leads and lifts (Location : GMP Tablet, R.M Block,Back side Building-1&2, Beta Block)	itemH1Code4	3300	SMT
6	Road Dismantling/removal	itemH1Code5	1000	SMT
7	Paver Dismantling/removal	itemH2Code1	2500	SMT

NAME OF WORK

GENERAL CONSTRUCTION WORK

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1	EXTERNAL PARAPHARY BRICK WALL & INTERNAL TOILET & STAIRCASE BRICK WALL (including RCC slab, plinth , column, back filling, screeding , footing, etc)((Location : New liquid block ground & 1st Floor, Store GF, GMP Building GF)	itemH1Code1	1850	SMT
2	ROAD Site grading of the ground and box excavation for roads & cutting in all type of soil to the required reduced levels for the devlopment of the plot & road work inclusive of shoring dewatering where required . The filling to be done in layers not excedding 230mm thk. to 90% proctor density with vibro mix equip. / 10 ton rollers.Above its 230 mm thick rubble soling to be carried out with lager followed by 230 mm thick 40 to 63 metal soiling on top of its 100 mm thick murrum / sand with proper compaction p.c.c of 100 mm thick (1 :4:8) ratio , to be followed by 230 mm thick rcc of M20 grade final finish to be done with trimix	code1.02	1800	SMT
3	PAVER Providing and laying paver blocks of 60mm thk of M25 grade. from approved manufacturer over prepared well compacted sub grade with classic type blocks of approved colour in the pattern specified by Architects over 50mm thick sand cushion laid to the required levels and slopes including vibrocompaction, all leads and lifts etc.,complete.	itemH1Code2	3000	SMT

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PLUMBING

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A1	HDPE PIPE AND ACCESSORIES			
1	Laying and jointing HDPE pipe in proper position by coupler sockets /butt fusion jointing procedure including hydraulic testing as per relevant IS Code complete with all materials for jointing procedures like butt fusion welding machine with hydraulic jack, top loading clamp etc. pump and accessories for hydraulic testing and all labours as directed by engineer in charge as confirming to IS - 7634. Lowering and laying of HDPE Pipes @ slope of 0.6 % including testing			
a	4 " HDPE PIPE		400	RMT
b	6 " HDPE PIPE		150	RMT
c	8 " HDPE PIPE		200	RMT
2	SITC of Floor Drain Traps (cGMP) for Clean Room Manufacturing applications		55	Nos
	Round Shape Drain Trap			
	Features:			
	MOC: SS Trap			
	Design : cGMP (DoubleSeal Round)			
	Size : 100 mm Dia.			
	Finish : chemically descaled (acid pickled) in order to enhance the natural corrosion resistance andprovide a uniform matt finish .			
	Easy to clean as the top cover and bottom collection bowl are removable & Flange end Outlet Connexion (Civil Work & core cutting in Client Scope)			

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Sl. No.	Item Description	Item Code / Make	Quantity	Units
3	SITC of HDPE 90o Elbows			
a	100 mm		120	Nos
b	150 mm		40	Nos
c	200 mm		30	Nos
4	SITC of HDPE 90o Single Plain Tee			
a	100 mm		30	Nos
b	150 mm		15	Nos
c	200 mm		10	Nos
5	SITC of HDPE Ecentric Reducer			
a	150 X 100 mm		10	Nos
b	200 X 150 mm		10	Nos
6	SITC of HDPE 90o Y-Type Single Plain Tee 45 Deg.		15	Nos
7	Piping Hanger Support including 8mm Anchor Faster, Thread rod, nut,bolts, washer etc. as required (space between to supoort to be 2 m (max.)) as required		1	Lot
8	Piping "U" Clamp Support along with wall including set of Screw etc. as required		1	Lot
9	HDPE Slip-on Type Flanges			
a	100 NB		100	Nos
b	150 NB		60	Nos

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Sl. No.	Item Description	Item Code / Make	Quantity	Units
c	200 NB		40	Nos
10	Pre Cut Ring gaskets, CAF gaskets, 3mm thk., suitable for insertion between raised face of ANSI B16.5, Temp. 25o to 140oC, ASA 150# rating Flanges.			
a	100 NB		100	Nos
b	150 NB		60	Nos
c	200 NB		40	Nos
11	HDPE Hexagonal Headed,Bolts & Nuts with double washers			
a	M20 x 85L		1	Lot
b	M16 x 75L		1	Lot
12	Water Leakege Testing & Cleaning.(Hydrotest)		1	Lot
B1	PVC PIPE AND ACCESSORIES			
1	Supply and fixing of PVC waste pipes jointed with rubber ring with good quality lubricant for joints. As per IS - 13592-1992 for pipes and IS 14735 for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, pan connector, cowls etc., laid under floor/under ceiling/on walls with suitable clamps and specials curing etc.			
a	4 " PVC PIPE		150	RMT
b	6 " PVC PIPE		120	RMT
b	8 " PVC PIPE		1	RMT

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
2	Providing & fixing 4" PVC drain trap (NT) including embedding trap in C.C. and jointing it to P.V.C. waste stack all as per slope,grade making inlet in neat cement finish including providing & fixing 100 mm dia. C.P. brass grating all as directed.		20	Nos
3	SITC of PVC 90o Elbows			
a	100 mm		20	Nos
b	150 mm		20	Nos
c	200 mm		1	Nos
4	SITC of PVC 90o Single Plain Tee			
a	100 mm		15	Nos
b	150 mm		15	Nos
c	200 mm		1	Nos
5	SITC of PVC 90o Y-Type Single Plain Tee 45 Deg.		5	Nos
6	Piping Hanger Support including 8mm Anchor Faster, Thread rod, nut,bolts, washer etc. as required (space between to supoort to be 2 m (max.)) as required		1	Lot
7	Piping "U" Clamp Support along with wall including set of Screw etc. as required		1	Lot
C1	SS PIPE AND ACCESSORIES			
1	Supply installation testing and comissioning of 4" SS Pharmaceutical Grade Drain. These drains should made from Stainless Steel AISI 304 (EN 1.4301) / AISI 316 (EN 1.4401 / 1.4404). The drain is equipped with a seal which bars materials and insects from entering in to the sterile areas. The trap include top removable SS cover also.			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
a	4 " SS PIPE		80	RMT
b	6 " SS PIPE		1	RMT
b	8 " SS PIPE		1	RMT
2	SITC of SS 90o Elbows			
a	100 mm		15	Nos
b	150 mm		1	Nos
c	200 mm		1	Nos
3	SITC of SS 90o Single Plain Tee			
a	100 mm		5	Nos
b	150 mm		1	Nos
c	200 mm		1	Nos
4	Piping Hanger Support including 8mm Anchor Faster, Thread rod, nut,bolts, washer etc. as required (space between to supoort to be 2 m (max.)) as required		1	Lot
5	Piping "U" Clamp Support along with wall including set of Screw etc. as required		1	Lot

NAME OF WORK

CLEANROOM

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1	CLEAN ROOM AND MODULER PANELING	itemH1		
1.1	80 MM DOUBLE SKIN WALL PANEL : Providing & fixing double skin partition only puff of 80 mm thickness made with both side powder coated 60-80 microns G.I. sheet of 0.8mm thick - plain surface both sides with out ribs with infilling of puff (44 ± 4kg/cum density), (Conduits shall be considered inside panel and it's rate) (Preffered make : I-clean/Ajni/VK)		2500	Sqm
1.2	50 MM DOUBLE SKIN WALL PANEL : Providing & fixing double skin partition only puff of 50 mm thickness made with both side powder coated 60-80 microns G.I. sheet of 0.8mm thick - plain surface both sides with out ribs with infilling of puff (44 ± 4kg/cum density). (Conduits shall be considered inside panel and it's rate) (Preffered make : I-clean/Ajni/VK)		1800	Sqm
1.3	80 MM DOUBLE SKIN WALL PANEL : Providing & fixing double skin partition only ROCKWOOL of 80 mm thickness made with both side powder coated 60-80 microns G.I. sheet of 0.8mm thick - plain surface both sides with out ribs with infilling of puff (Density 96 kg/M3), (Conduits shall be considered inside panel and it's rate) (Preffered make : I-clean/Ajni/VK)		1	Sqm
1.4	50 MM DOUBLE SKIN WALL PANEL : Providing & fixing double skin partition only ROCKWOOL of 50 mm thickness made with both side powder coated 60-80 microns G.I. sheet of 0.8mm thick - plain surface both sides with out ribs with infilling of puff (Density 96 kg/M3). (Conduits shall be considered inside panel and it's rate) (Preffered make : I-clean/Ajni/VK)		1	Sqm
1.5	50 MM DOUBLE SKIN WALKABLE CEILING PANEL INCLUDING ALL ACCESSORIES FOR FIXING : Providing & fixing double skin partition puff only of 50 mm thickness made with both side powder coated 60-80 microns G.I. sheet of 0.8mm thick - plain surface both sides with out ribs with infilling of puff (44 ± 4kg/cum density).Cutouts shall be considered inside panel and it's rate) (Preffered make : I-clean/Ajni/VK)		1350	Sqm

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
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1.6	50 MM DOUBLE SKIN WALKABLE CEILING PANEL INCLUDING ALL ACCESSORIES FOR FIXING: Providing & fixing double skin partition ROCKWOOL only of 50 mm thickness made with both side powder coated 60-80 microns G.I. sheet of 0.8mm thick - plain surface both sides without ribs with infilling of puff (44 ± 4kg/cum density). Cutouts shall be considered inside the panel and its rate) (Preffered make : I-clean/Ajni/VK)		1	Sqm
1.7	ONE SIDE S.S. 304 + ONE SIDE G.I WALL FLUSH PARTITION (80MM) for wash area/ Providing of 50mm thk. partition. one side 0.80mm S.S. and other side 0.80mm G.I sheet. modular double skin flush partition. With puff (44 ± 4kg/cum density) insulation. Both the sheets are fixing with 0.80mm G.I. channel with rivet/screw. (G.I. SHEET & S.S. 304)		80	Sqm
1.8	ONE SIDE S.S. 304 + ONE SIDE G.I WALL FLUSH PARTITION (50MM) for wash area/ Providing of 50mm thk. partition. one side 0.80mm S.S. and other side 0.80mm G.I sheet. modular double skin flush partition. With puff (44 ± 4kg/cum density) insulation. Both the sheets are fixing with 0.80mm G.I. channel with rivet/screw. (G.I. SHEET & S.S. 304) (Preffered make : I-clean/Ajni/VK)		80	Sqm
1.9	BOTH SIDE S.S. 304 WALL FLUSH PARTITION (80MM) for wash area/ Providing of 50mm thk. partition. one side 0.80mm S.S. and other side 0.80mm G.I sheet. modular double skin flush partition. With puff (44 ± 4kg/cum density) insulation. Both the sheets are fixing with 0.80mm G.I. channel with rivet/screw. (G.I. SHEET & S.S. 304)(Preffered make : I-clean/Ajni/VK)		1	Sqm
1.1	BOTH SIDE S.S. 304 WALL FLUSH PARTITION (50MM) for wash area/ Providing of 50mm thk. partition. one side 0.80mm S.S. and other side 0.80mm G.I sheet. modular double skin flush partition. With puff (44 ± 4kg/cum density) insulation. Both the sheets are fixing with 0.80mm G.I. channel with rivet/screw. (G.I. SHEET & S.S. 304)(Preffered make : I-clean/Ajni/VK)		1	Sqm
1.11	ONE SIDE S.S. 304 + ONE SIDE G.I FLUSH WALKABLE CEILING PANEL (50MM)/ Providing of 50mm thk. partition. one side 0.80mm S.S. and other side 0.80mm G.I sheet. modular double skin flush partition. With ROCKWOOL (Density 96 kg/M3) insulation. Both the sheets are fixing with 0.80mm G.I. channel with rivet/screw. (G.I. SHEET & S.S. 304)(Preffered make : I-clean/Ajni/VK)		80	Sqm
1.12	Coving for corner Extruded aluminium clip on type R-50 covings for the entire wall to wall and wall to ceiling.		3000	Rmt

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.13	Aluminium 3D corners		450	Nos
1.14	Aluminium 2D corners		450	Nos
1.15	L / C shape flushing - so to cover any unfinished visible part of ceiling and wall panels		350	Rmt
2	80 MM DOUBLE SKIN PARTITION RETURN AIR RISER PANEL : Providing & fixing double skin partition puff panels of 80 mm thickness made with both sides GI sheets of 0.8 mm - plain surface both sides with out ribs with infilling of \ puf (44 ± 4kg/cum density). Along with 10 mic filter and damper arrangment to adjust the air suction. The riser panel should be proper inside support to avoid any bending due to load.			
2.1	R1-Riser Size-900X80		110	Nos
2.2	R2-Riser Size-650X80		120	Nos
2.3	R3-Riser Size-450X80		120	Nos
3	DOORS : 50 mm thick doors made with powder coated 0.8 mm thick G.I. sheets on both sides with puff, 1.2 mm thick G.I. door frames, hardware like SS push plate, SS kick plate, SS 'D' handle, SS ball bearing butt hinges,Double glazed view panel of std .size ,conceaed flush bolt for double door, door closure etc. (With Door Lock) (Preffered make : I-clean/Ajni/VK)			
3.1	D4 : 750 x 2100 mm single leafe door		145	Nos
3.2	D3 : 900 x 2100 mm single leafe door		105	Nos
3.3	D2 : 1200 x 2100 mm single leafe door (ONE SIDE SS, ONE SIDE GI)		10	Nos
3.4	D2 : 1000 x 2100 mm single leafe door		1	Nos
3.5	D2 : 1200 x 2100 mm double leafe door		75	Nos
3.6	D0 : 1500 x 2100 mm double leafe door		12	Nos

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.7	ED : 1500 x 2100 mm CRUSH PANEL EMERGENCY DOOR		1	Nos
4	Individual Door Accessories rate (only rate to be filled)			
4.1	SS Push Plate		1	Nos
4.2	SS Kick Plate		1	Nos
4.3	SS 'D' Handle		1	Nos
4.4	SS ball bearing		1	Nos
4.5	Butt Hinges		1	Nos
4.6	Door Lock		1	Nos
4.7	Door Clouser		1	Nos
4.8	Door Seal		1	Nos
5	VIEW PANELS Double glazed view panels with flush design , with 5mm thick clear glass, VHB tape, of size 1000 x 1000 wide border in black fixed in the partition panel with all necessary arrangements for moisture control etc.(Preffered make : I-clean/Ajni/VK)			
5.1	View Panel For 50 MM Thick Panel		100	Nos
5.2	View Panel For 80 MM Thick Panel		100	Nos
6	Silicon sealant white for finishing work		1	Lot
7	Silicon sealant black for view glass along with accessories		1	Lot
8	Wall Cutout for Electrical Switch and others (Extra based on site)		10	Nos

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
9	Ceiling Cutout For HVAC and Electrical (Extra based on site)		10	Nos
10	GYPBOARD FALSE CEILING ((Preffered make : Saint Gobin)		2000	SqMtr
	Providing, fabricating and fixing of suspended false ceiling consisting of 12.5mm thick Gypsum plaster board suspended on GI framework with staggered joints. GI framework to consist of GI perimeter channels 0.55mm thick, having One Flange of 20mm and another flange of 30mm and a web of 27mm, along perimeter of false ceiling of ceiling, screw fixed to wall / partition with nylon sleeves and screws @ 600mm c/c. Suspending GI intermediate channels of size 0.9mm thick 45mm x 15mm from the soffit at max dist 1220mm c/c with ceiling angle 0.55mm thick 25mm x 10mm fixed to soffit using proprietary supplied GI cleats and steel expansion fasteners.			
	Ceiling section 0.55mm thick web size 51.5mm and flanges 26mm each and 10.5mm lips are fixed perpendicular to intermediate channel @ 457mm c/c using connecting clips.			
	12.5mm thk. tapered gypsum plasterboard (IS 2095-1982) is screw fixed to ceiling section with 25mm drywall screws @ 230mm c/c. Boards to be finished with proprietary supplied jointing tape and jointing compound and sand papered to achieve a smooth and seamless finish. and 2 coats of primer suitable for plasterboard applied and two coats of Arcylic emulsion paint to be applied as per manufacturer specification.			
	Rate quoted to include vertical drops of 250mm and all cut-outs required for light fixtures, smoke detectors and other services cut-outs complete as directed by Architect. (Vendor to account for additional supports as required).			
	Rate quoted to include cost of providing support framework formed of perimeter channels for fixing light fixtures, AC grills / diffusers etc., Also to provide concealed perimeter channel support as required to support modular grid ceiling sections at junction between gypboard false ceiling and modular grid tile ceiling.			
10.1	TRAP DOORS			
	Providing and fixing Modular Trap door on false ceiling of KNAUF ALTOF of approved or Equivalent of below sizes as manufactures specifications.			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Size 600X600		7	Nos

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LABORATORY FURNIURE

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	WASH AREA	itemH1		
1	Wall Bench-1 Size : L1200 X W750 X H900 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		9.688	Sq.feet
	M 400 mm wide Storage Cabinet with One Drawer Shutter Combination with one Adjustable shelf		1	Nos.
	M 750 mm wide Sink Cabinet with Two Shutter		1	Nos.
	PP sink Size: (L 560 x W 355 x D 210) mm with PVC coupler with 1.0 mtr Drain Hose Pipe		1	Nos.
	Three Way Swan Neck Type Water Tap with Inlet Pipe and Fittings		1	Nos.
	Close Panel		1	Nos.
	HOT ROOM			
2	Constatant Bypass Bench Fume Hood Size: L1500 X D900 X H2300 mm		1	Nos.
	Fume Hood Consist of (Technical Sheet Attached)			
	Fume Hood Super Structure			
	Fume Under Structure			
	Fume Hood Under Structure Cabinets			
	Work Top Natural JetBlack Granite 18 mm thk with All side raised rails			
	Utility Valve			
	PP Damper			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Electrical Sockets			
3	PP FRP Exhaust fan Blower For Fume hood		1	Nos.
	PP FRp Exhaust fan made from PP Sheet			
	1.5 HP , 1440 RPM , 3 phade Class B Induction Motor (Bharat Bijallee or Crompton Make)			
	D.O.L. Starter			
	WET LAB			
4	IB- 1 Size : L3250 X W1800 X H900 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		62.969	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		6	Nos.
	M 750 mm wide Storage Cabinet with Two Shutter with one Adjustable shelf		4	Nos.
	M 750 mm wide Sink Cabinet with Two Shutter		1	Nos.
	PP sink Size: (L 560 x W 355 x D 210) mm with PVC coupler with 1.0 mtr Drain Hose Pipe		1	Nos.
	Three Way Swan Neck Type Water Tap with Inlet Pipe and Fittings		1	Nos.
	Peg Board (PP Peg 20nos.) With S.S Tray for Drain		1	Nos.
	Double Sided Two Tier Rack (L2500 X D300 X H650mm)		2.5	mtr.
	Island frame		3.25	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		6	Nos.
	Rear Close Panel		1	Nos.

Item Rate BoQ				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
5	G.I Construction Floor Mounted Safety Shower With Eye Wash		1	Nos.
	Eye Wash hand held oprated and shower hand lever oprated			
	BALANCE ROOM			
6	Wall Bench-2 Size : L550 X W750 X H900 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		4.44	Sq.feet
	M 500 mm wide Storage Cabinet with One Drawer Shutter Combination with one Adjustable shelf		1	Nos.
	Electrical RaceWay with Internal Wiring		0.55	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Rear Close Panel		2	Nos.
7	Anti Vibration Table (AVT) Size: L 750 x W 750 x H 750 mm		2	Nos.
	Fabricated out of 1.2 mm thk Galvanized Iron sheet,			
	Structure in 50 x 50 x 2 mm thk hollow pipe const. with epoxy powder coated,			
	Work top in 60 ± 1 mm thick Black Granite construction			
	Work top Mounted On Heavy Duty Anti Vibration Pad.			
	Anti Vibration Table Mounted on Heavy Duty Anti vibration Pad			
	HPLC ROOM			
8	Wall Bench-3 Size : L3475 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		28.053	Sq.feet

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	M 750 mm wide Storage Cabinet with one Drawer and Two Shutter Combination with one Adjustable shelf		3	Nos.
	Leg space without Footrest-600mm		2	Nos.
	Keyboard Tray With Support		2	Nos.
	Cable Manager		2	Nos.
	Data Socket (Wiring client scope)		2	Nos.
	Electrical RaceWay with Internal Wiring		3.475	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		5	Nos.
	Close Panel		1	Nos.
9	Corner Bench - 1 Size : L1030 X W1030 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		11.419	Sq.feet
	M 1030 mm wide Storage Cabinet with One Shutter Corner Module		1	Nos.
	Electrical RaceWay with Internal Wiring		2.06	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
10	Wall Bench-4 Size : L1671 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		13.49	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		2	Nos.
	Leg space without Footrest-600mm		1	Nos.
	Keyboard Tray With Support		1	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Cable Manager		1	Nos.
	Data Socket (Wiring client scope)		1	Nos.
	Electrical RaceWay with Internal Wiring		1.671	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Close Panel		1	Nos.
	INSTRUMENT ROOM			
11	Wall Bench-5 Size : L3475 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		28.053	Sq.feet
	M 750 mm wide Storage Cabinet with one Drawer and Two Shutter Combination with one Adjustable shelf		3	Nos.
	Leg space without Footrest-600mm		2	Nos.
	Keyboard Tray With Support		2	Nos.
	Cable Manager		2	Nos.
	Data Socket (Wiring client scope)		2	Nos.
	Electrical RaceWay with Internal Wiring		3.475	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		5	Nos.
	Close Panel		1	Nos.
12	Corner Bench - 2 Size : L1030 X W1030 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		11.419	Sq.feet

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	M 1030 mm wide Storage Cabinet with One Shutter Corner Module		1	Nos.
	Electrical RaceWay with Internal Wiring		2.06	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
13	Wall Bench-6 Size : L1537 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		13.49	Sq.feet
	M 450 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		2	Nos.
	Leg space without Footrest-600mm		1	Nos.
	Keyboard Tray With Support		1	Nos.
	Cable Manager		1	Nos.
	Data Socket (Wiring client scope)		1	Nos.
	Electrical RaceWay with Internal Wiring		1.537	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Close Panel		1	Nos.
	DISSOLUTION ROOM			
14	Wall Bench-7 Size : L3475 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		28.053	Sq.feet
	M 750 mm wide Storage Cabinet with one Drawer and Two Shutter Combination with one Adjustable shelf		3	Nos.
	Leg space without Footrest-600mm		2	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Keyboard Tray With Support		2	Nos.
	Cable Manager		2	Nos.
	Data Socket (Wiring client scope)		2	Nos.
	Electrical RaceWay with Internal Wiring		3.475	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		5	Nos.
	Close Panel		1	Nos.
15	Corner Bench-3 Size : L1030 X W1030 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		11.419	Sq.feet
	M 1030 mm wide Sink Cabinet with Two Shutter Corner Module		1	Nos.
	PP sink Size: (L 560 x W 355 x D 210) mm with PVC coupler with 1.0 mtr Drain Hose Pipe		1	Nos.
	Three Way Swan Neck Type Water Tap with Inlet Pipe and Fittings		1	Nos.
	Electrical RaceWay with Internal Wiring		2.06	mtr.
16	Wall Bench-8 Size : L768 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		6.2	Sq.feet
	M 750 mm wide Storage Cabinet with one Drawer and Two Shutter Combination with one Adjustable shelf		1	Nos.
	Electrical RaceWay with Internal Wiring		0.768	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		1	Nos.
	Close Panel		1	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	JANITOR			
17	Wall Bench-9 Size : L1498 X W750 X H900 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		12.093	Sq.feet
	M 600 mm wide Storage Cabinet with one Drawer and Two Shutter Combination with one Adjustable shelf		1	Nos.
	M 750 mm wide Sink Cabinet with Two Shutter		1	Nos.
	PP sink Size: (L 560 x W 355 x D 210) mm with PVC coupler with 1.0 mtr Drain Hose Pipe		1	Nos.
	Three Way Swan Neck Type Water Tap with Inlet Pipe and Fittings		1	Nos.
	Electrical RaceWay with Internal Wiring		1.498	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		1	Nos.
	Close Panel		1	Nos.
	QC MANAGER			
18	Wall Bench-10 Size : L 1525 X W600 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		9.849	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		1	Nos.
	Leg space without Footrest-600mm		1	Nos.
	Keyboard Tray With Support		1	Nos.
	Cable Manager		1	Nos.
	Data Socket (Wiring client scope)		1	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Telephone Socket (Wiring client scope)		1	Nos.
	Pipe Panel in Double Skin Construction		1	Nos.
	Granite Support Frame		1	Nos.
	Electrical RaceWay with Internal Wiring		1.5	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Back Side Close Panel		1	Nos.
	Rear Close Panel		1	Nos.
19	Wall Bench- 10A Size : L 900 X W400 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		3.875	Sq.feet
	M 900 mm wide Storage Cabinet with Two Shutter Combination with one Adjustable shelf		1	Nos.
	QC STAFF AREA			
20	Wall Bench-11 Size : L1990 X W650 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		13.923	Sq.feet
	M 600 mm wide Storage Cabinet with one Drawer and Two Shutter Combination with one Adjustable shelf		1	Nos.
	Leg space without Footrest-600mm		2	Nos.
	Keyboard Tray With Support		2	Nos.
	Cable Manager		2	Nos.
	Data Socket (Wiring client scope)		2	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Pipe Panel in Double skin construction		2	Nos.
	Electrical RaceWay with Internal Wiring		1.99	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Close Panel		1	Nos.
21	Corner Bench - 4 Size : L930 X W930 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		9.31	Sq.feet
	M 930 mm wide Storage Cabinet with One Shutter Corner Module		1	Nos.
	Electrical RaceWay with Internal Wiring		1.86	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
22	Wall Bench-12 Size : L1206 X W650 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		8.438	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		1	Nos.
	Leg space without Footrest-600mm		1	Nos.
	Keyboard Tray With Support		1	Nos.
	Cable Manager		1	Nos.
	Data Socket (Wiring client scope)		1	Nos.
	Pipe Panel in Double skin construction		1	Nos.
	Electrical RaceWay with Internal Wiring		1.206	mtr.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Close Panel		1	Nos.
	SAMPLE RECEIVING MICRO OFFICE			
23	Wall Bench-13 Size : L3963 X W700 X H750mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		29.86	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		4	Nos.
	Leg space without Footrest-600mm		3	Nos.
	Key board Tray With Support		3	Nos.
	Cable Manager		3	Nos.
	Data Socket (Wiring client scope)		3	Nos.
	Electrical RaceWay with Internal Wiring		3.963	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		5	Nos.
	Close Panel		1	Nos.
	IPQC/OFFICE			
24	Wall Bench-14 Size : L1688 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		13.627	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		2	Nos.
	Leg space without Footrest-600mm		1	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Keyboard Tray With Support		1	Nos.
	Cable Manager		1	Nos.
	Data Socket (Wiring client scope)		1	Nos.
	Electrical RaceWay with Internal Wiring		1.688	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Close Panel		1	Nos.
25	Corner Bench-5 Size : L1030 X W1030 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		11.419	Sq.feet
	M 1030 mm wide Sink Cabinet with Two Shutter Corner Module		1	Nos.
	PP sink Size: (L 560 x W 355 x D 210) mm with PVC coupler with 1.0 mtr Drain Hose Pipe		1	Nos.
	Three Way Swan Neck Type Water Tap with Inlet Pipe and Fittings		1	Nos.
	Electrical RaceWay with Internal Wiring		2.06	mtr.
26	Wall Bench-15 Size : L1703 X W750 X H750 mm		1	Nos.
	Work Top Natural JetBlack Granite 18 +/- 1 mm thk		13.748	Sq.feet
	M 500 mm wide Storage Cabinet with one Drawer Shutter Combination with one Adjustable shelf		2	Nos.
	Leg space without Footrest-600mm		1	Nos.
	Keyboard Tray With Support		1	Nos.
	Cable Manager		1	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Data Socket (Wiring client scope)		1	Nos.
	Electrical RaceWay with Internal Wiring		1.703	mtr.
	Electrical Socket 6/16 amp (2+2) 6Module		2	Nos.
	Close Panel		1	Nos.
	STANDARD STORAGE ROOM			
27	Glassware Storage Cabinet GSC Size: L900 x D450 X H 1830 mm		2	Nos.
	Storage cabinet outer body made from GI sheet Powder Coated			
	Front Doors In Toughen Glass Constructions			
	One nos. Fixed Partition			
	SS 304 Handles			
	Hettich make Lock			
	SS Butt Hinges With Positive catch			
	Four nos. Removable Shelf			
	CHEMICAL & GLASSWARE STORE			
28	Glassware Storage Cabinet GSC Size: L1000 x D450 X H 1830 mm		3	Nos.
	Storage cabinet outer body made from GI sheet Powder Coated			
	Front Doors In Toughen Glass Constructions			
	One nos. Fixed Partition			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	SS 304 Handles			
	Hettich make Lock			
	SS Butt Hinges With Positive catch			
	Four nos. Removable Shelf			
29	Chemical Storage Cabinet (CSC) Size: L 1000 x D 450 x H 1830mm		3	Nos.
	- Outer frame in aluminum anodized construction			
	- Outer body in GI epoxy powder coated construction			
	- Inner Skin / Baffles in 5mm Thk. PP/3mm Phenolic Resine construction sheet on shelves.			
	- Special arrangement for ventilation from each shelf,			
	- Double skin metallic doors with Lock, Nylon Hinges, SS handles with Four nos. Removable Shelf			
	- 100mm dia. Duct damper in PP construction			
30	Inline PP Blower 4 Inch Dia. 3 No for Chemical Storage		1	Nos.
	RETAIN SAMPLE ROOM			
31	Slotted Angle Rack Size: L 1000 X D 450 X H 1830		8	Nos.
	Vertical Memer made from Galvinised iron Sheet in 16 gauge thickness			
	4 Nos. Adjustable shelf in 20 gauge thickness			
	Top and Botom made from 20 gauge Thickness			
	All Hardware use SS 304 Only.			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	QC FEMALE CHANGE ROOM (GF055)			
32	Cross Over Bench Size : L 1408 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	QC MALE CHANGE ROOM (GF054)			
33	Cross Over Bench Size : L 1727 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	SAMPLE RECEIVE			
34	Slotted Angle Rack Size: L 1000 X D 450 X H 1830		2	Nos.
	Vertical Memer made from Galvinised iron Sheet in 16 gauge thickness			
	4 Nos. Adjustable shelf in 20 gauge thickness			
	Top and Botom made from 20 gauge Thickness			
	All Hardware use SS 304 Only.			
	DOCUMENT STORE			
35	File Storage Cabinet Size : L 900 X W 450 X H 1830mm		7	Nos.
	Storage cabinet outer body made from GI sheet Powder Coated			
	Front Doors In Toughen Glass Constructions			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Three nos. Fixed Partition			
	SS 304 Handles			
	Hettich make Lock			
	SS Butt Hinges With Positive catch			
	MICRO MALE CHANGE ROOM (GF076)			
36	Cross Over Bench Size : L 1328 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	MICRO FEMALE CHANGE ROOM (GF077)			
37	Cross Over Bench Size : L 1127 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	MEDIA CULTURE			
38	Glassware Storage Cabinet GSC Size: L900 x D450 X H 1830 mm		4	Nos.
	Storage cabinet outer body made from GI sheet Powder Coated			
	Front Doors In Toughen Glass Constructions			
	One nos. Fixed Partition			
	SS 304 Handles			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Hettich make Lock			
	SS Butt Hinges With Positive catch			
	Four nos. Removable Shelf			
	GLASSWARE STORE			
39	Glassware Storage Cabinet GSC Size: L900 x D450 X H 1830 mm		4	Nos.
	Storage cabinet outer body made from GI sheet Powder Coated			
	Front Doors In Toughen Glass Constructions			
	One nos. Fixed Partition			
	SS 304 Handles			
	Hettich make Lock			
	SS Butt Hinges With Positive catch			
	Four nos. Removable Shelf			
	FEMALE CHANGE ROOM 2 (GF005)			
40	Cross Over Bench Size : L 1883 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF009)			
41	Cross Over Bench Size : L 1196 X W300 X H550 mm		1	Nos.

Item Rate BoQ				
Tender Inviting Authority: FM, Gluconate Health Limited				
Name of Work: LABORATORY FURNIURE				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	MALE CHANGE ROOM 2 (GF003)			
42	Cross Over Bench Size : L 1820 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF014)			
43	Cross Over Bench Size : L 1202 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF016)			
44	Cross Over Bench Size : L 1202 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF018)			
45	Cross Over Bench Size : L 1202 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			

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Tender Inviting Authority: FM, Gluconate Health Limited				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	PERSONAL AIRLOCK (GF020)			
46	Cross Over Bench Size : L 1204 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF022)			
47	Cross Over Bench Size : L 1202 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF026)			
48	Cross Over Bench Size : L 1197 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF031)			
49	Cross Over Bench Size : L 1197 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF034)			
50	Cross Over Bench Size : L 1205 X W300 X H550 mm		1	Nos.

Item Rate BoQ				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF035)			
51	Cross Over Bench Size : L 1305 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF039)			
52	Cross Over Bench Size : L 1197 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF040)			
53	Cross Over Bench Size : L 1200 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF081)			
54	Cross Over Bench Size : L 1761 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickess in plastic coated matt finish sheet			
	S Type Design			

Item Rate BoQ				
Tender Inviting Authority: FM, Gluconate Health Limited				
Name of Work: LABORATORY FURNIURE				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	PERSONAL AIRLOCK (GF097)			
55	Cross Over Bench Size : L 1328 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			
	PERSONAL AIRLOCK (GF098)			
56	Cross Over Bench Size : L 1423 X W300 X H550 mm		1	Nos.
	Cross Over bench Made from S.S 304 in 1 mm thickness in plastic coated matt finish sheet			
	S Type Design			

NAME OF WORK

FLOORING WORKS

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: FLOORING WORKS				
Contract No: NIT/PT-21/26-27				
Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
3.01	GRANITE FLOORING	itemH1		
	Providing, cutting and laying 20mm thick watercut Granite stone of approved colour shade and sizes in the flooring as per drawings/ flooring pattern, laid on 35mm thick (average thickness at all levels) cement mortar (1 cement : 4 course sand). Joints in the flooring to be filled with BAL - RG1 Hygienic Impervious tile grout to match the shade of granite. Quoted rate to include the cost of surface cleaning, cement mortar, curing, polishing, protecting the flooring with polythene sheet and POP overlay till hand-over to client.		40	SMT
3.02	VITRIFIED TILE FLOORING			
	Vitrified tile flooring of size, colour and pattern as approved by the architect. Thickness of tile min. 10mm. The cost to include preparation of sub floor to plumb level with normal PCC course, and tiles fixed using adhesive, Laying tiles on a thin cement slurry paste /Tile Adhesive & necessary protection after laying. Joints between tiles to be of paper joint of approved shade or approved equivalent make. Rate to include cost for laying tiles to approved pattern, design as directed by Architect, including curing, acid wash, etc., and protecting the flooring with polythene sheet and pop overlay till hand over.		300	SMT
3.03	KOTA FLOORING			
	Polished Kota Stone flooring-25mmmin'mthickstoneslab flooring(sampleofmarbleshallbeapprovedbyIHC) laidover 20mmthick baseofcementmortar1:4(1cement:4coursesand) and jointed with cement slurry with pigment to match the shadeof theslab including grinding and polishing completeandalsoPOPprotectivecoat toprevent scratches, curing etc.,		2800	SMT

NAME OF WORK

PU Flooring

Item Rate BoQ				
Tender Inviting Authority: FM, Gluconate Health Limited				
Name of Work: PU Flooring				
Contract No: NIT/PT-21/26-27				
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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	PU Flooring (With Installation)	itemH1		
	➤ Surface preparing by removing of dust, oil, grease, unwanted cements etc. through heavy-duty grinding machine for exposing the micro-pores on concrete. ➤ Groove cutting and anchoring on the floor. ➤ Filling of control joints, holes, and uneven surfaces through epoxy mortar. ➤ Applying of primer at 200 mic with broadcasting of sand and let it cure for 12 hrs. ➤ Applying of Final PU Concrete 4000 mic evenly with notched trowel and removal of Air with spike trowel and let it cure for 72 hrs.	itemH1Code1		
1.1	4mm PU Flooring	code1.02	1600	Sq Mtr
1.2	4"X4" Coving	itemH1Code2	1500	RMT
1.3	Pensil Coving for other areas	itemH1Code3	500	RMT
		itemH1Code3		

NAME OF WORK

EQUIPMENTS

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: EQUIPMENTS				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	DYNAMIC PASS BOX			
	Supply installation testing and comissioning of dynamic pass box. The system contains HEPA Filter, which conforms to H 14 Grade, with an efficiency rating better than 99.999% for 0.3 μ at supply position. Fresh Air filter which conforms to EU 5 Grade, with efficiency of 95% down to 5 micron. These Filters are basically made from High density polythene mesh and are inherently washable.			
	EBM Motor Blower with Speed Controller provided are statically and dynamically balanced, Supply of sufficient capacity and static pressure is used to take care of airflow requirement for entire life of HEPA. Blower is high performance, noise abated, light weighted statically and dynamically balanced			
	Pressure Gauge (0 – 50 mm: 1 No.) to monitor pressure drop across main HEPA Filter with respect to ambient with High-low alarm			
	Microprocessor, SS 304 double walled doors with glass view panels, SS handle, hinges. Electro – Magnetic Interlocking to ensure only one side door will be opened at a time.PAO port, SS Perforated Grill for Return Air,Atmosphere Nozzle,LED Light,SS Coving and Flanges,Door Release Switch with Slave Display			
	UV and flourescant light with UV Burning hour counter			
1.1	DPB Size-600(w)X600(h)x600(d)(Clear Space)		3	Nos
1.2	DPB 3 Way Size- 600(w)X600(h)x600(d)(Clear Space)		3	Nos
1.3	DPB Size- 450(w)X450(h)x600(d)(Clear Space)		10	Nos
1.4	DPB Size 3 Way - 900(w)X900(h)x900(d)(Clear Space)		3	Nos
1.5	DPB Size- 900 (w)X900(h)x900(d)(Clear Space)		40	Nos

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
2	STATIC PASS BOX			
	Supply installation testing and comissioning of static pass box. The system contains Filter, which conforms to EU5 Grade,e, with efficiency of 95% down to 5 micron. These Filters are basically made from High density polythene mesh and are inherently washable.			
	EBM Motor Blower with Speed Controller provided are statically and dynamically balanced, Supply of sufficient capacity and static pressure is used to Blower is high performance, noise abated, light weighted statically and dynamically balanced			
	Microprocessor, SS 304 double walled doors with glass view panels, SS handle, hinges. Electro – Magnetic Interlocking to ensure only one side door will be opened at a time.SS Perforated Grill for Return Air,LED Light,SS Coving and Flanges,Door Release Switch with Slave Display			
2.1	SPB Size-600(w)X600(h)x600(d)(Clear Space)		1	Nos
3	LAF			
	The Laminar Air Flow booth to be used for a clean, disinfected, low-particulate environment			
	designed to provide re-circulate approx. 90% air from the room, and about 10% fresh air filtered will get mixed with return air in the mixing chamber through ducting.			
	Air velocity should not exceed 0.45 m/s (±0.05 m/s)			
3.1	Working area of LAF Should Be (1200(w)x600(d)x900(h)(MM) (MLT) (HORIZONTAL)		1	Nos
3.2	Working area of LAF Should Be 1600(W)x1000(D)x 2100 (H) (MM) (HORIZONTAL)		2	Nos
4	BIO SAFETY CABINET			

Item Rate BoQ				
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Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Supply installation testing and comissioning of Bio Safety Cabinet, the system Inner Chamber & Outer Chamber shall made of stainless-steel high efficiency and smooth surface.Particulate air filters, to achieve the air purification up to 0.3 Microns in working area.It should maintain the cleanliness of area as per grade class 100.			
	Blower fitted with moter. Motor must automatically adjust the airflow speed (balancing inflow and down flow) without the use of a damper to ensure continuous safe working conditions.			
	Pre-filters made of high-grade nylon Net fixed in S.S. frame for first Stage air purification, through blower system.			
	Closed Inner Chamber fitted with HEPA having very accurate performance rate of air filtration, rated 99.995%, resulting in ceasing all air bore molecule of particle up to 0.3 micron in working Area of Laminar Bench.			
	The airflow should horizontal and air should not exposure to the user.			
	Safety Door should provide to protect the user from the biological contamination and working port required in the safety door itself for handling of biological hazards (It should be designed in such a way that the user can handle the biological hazardous material without opening the whole safety door).			
	Manometer across filter, Led fluroscent light, cock for gas connection, safety alarm etc			
4.1	BSC - (1200(w)x600(d)x900(h)(MM)		1	Nos
5	RLAF			
	The Reverse Laminar Air Flow booth to be used for providing class 100 working environment for sampling as well dispensing activity of Active, Excipients and solvent materials.			
	capable to continuously sampling and dispensing active Excipients and solvent materials for 24 hours of continuous operation before requiring a major clean.			
	is designed to provide re-circulate approx. 90% air from the room, and about 10% fresh air filtered will get mixed with return air in the mixing chamber through ducting.			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	All the contact parts in SS SS 304, SS 304 frames for HEPA and micro prefilters. Pre filter with G-4, Fine filter with F-7, all filter should come with pressure gauge, air sampling port, PAO port motor, blower an d all other arrangement.			
5.1	The Size of working area of RALF Should Be (1600(w)x1000(d)x2100(h) (MM) (Flouroscent and Monochromatic light req.)		4	Nos
5.2	The Size of the working area of RALF Should Be 1600(W)x1000(D)x 2100 (H) (MM) (SOLVENT SAMPLING / DISPENSING ROOM WITH) (FLP)		1	Nos
6	LIQUID MANUFACTURING 3000m Liter working capacity			
6.1	1KL Premix Tank without Jacktet and bottom strirrer		1	Nos
6.2	2KL Sugar melting tank with Jacktet and bottom strirrer		1	Nos
6.3	3KL Manufacturing tank with Jacktet ,bottom strirrer with homogenizer		1	Nos
6.4	3KL Holding tank withot Jacktet with bottom strirrer		2	Nos
	Vessel Type : Cylindrical shell with torispherical top and bottom dish.			
	Online Filtration after manufaturing			
	• All product contact parts in vessel and piping will be of SS316L and PTFE • All non-product contact parts in vessel and piping will be of SS304/Other preferred MOC			
	Product transfer line from Manufacturing Vessel to Holding Vessel is considered with centrifugal pump			
	The materail will be charge in auto mode.			
	Load cell with weight indicator cum transmitter considered for level verification in manufacturing Tank			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	The system will have numbers of recipe for automatic manufactruing. Cleaning will be by auto recipe for automatic cleaning and pipelines . The system will have previlage system with multiple acess level with multiple users .the system will have partial 21 CFR compliance with HMI based operation.			
7	FBD			
7.1	Capacity of FBD :60kg		1	Nos
	All product contact metallic parts are be SS 316L and nonmetallic partsare food grade, All visible product Non-contact metallic parts are SS 304.Hidden/Shrouded , Non-contact parts such as motor , gear box , housing etc are be in MS/CS construction, provided such surface can be properly de-scaled and treated with minimum two coats of rust proof paint			
	Temperature indicator cum controller for inlet and outlet air temperature			
	Digital temperature indicator are provided for inlet & outlet air, in steam/thermic fluid heated mode			
	PLC based power panel with touch screen based operating panel for process automation.			
	An explosion safety flap of adequate capacity at the rear of dryer and an earthing point to prevent static charge in the machine			
	Provision to auto shaking of filter bag to remove the fine material from the filter			
	Movable product container mounted on trolley provided to contain product for Fluidization having conidure sieve and a supported ring with bolted. A sampling nozzle provide to taking sampling during process.			
	Bottom chamber are cylindrical with leg supports with drain for wash water and sealing of product container at top flange with retarding chamber and lower flange with bottom chamber through inflatable silicon seal and forms a complete one sealed unit			
	Light and slide glass ports are provide at suitable location to have a view of fluidization during process.			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Face and bypass temperature controlling system is provided to achieve optimal temperature control with $\pm 1^\circ$ efficiency.			
	CFM sensor is provided with display in HMI for controlling the inlet airflow. The sensor shall install on the inlet side prior to the AHU			
	Magnehellic gauges I provide to monitor the chocking of filters			
	The system will have numbers of recipe for automatic manufactruing. Cleaning will be by auto recipe for automatic cleaning. The system will have previlage system with multiple acess level with multiple users .the system will have partial 21 CFR compliance with HMI based operation.			
	Dedicated AHU with Humidity control , HEPA filter. The inner surface of the AHU will be SS304 and Piping for the air linlet /outlet to FBD will be SS316			
	Dry Scrubber for powder trap			
	The system will have numbers of recipe for automatic manufactruing. Cleaning will be by auto recipe for automatic cleaning and pipelines . The system will have previlage system with multiple acess level with multiple users .the system will have partial 21 CFR compliance with HMI based operation.			
	Extra product container will be provided			
	Limit switches used for system/equipment safety devices			
8	BOD Incubator			
8.1	Capacity in Liter:600Ltr		3	Nos
	Temperature Range: 10°C to 60°C			
	Inside and outside Materail SS304			
	Body & Door Insulation : Poly Urethane Foam (PUF)			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	S.S. Nichrome Wire Embedded 'U' Shaped Air Heater			
	Auto changeover of Master sensor in case of failure			
	PLC control system with touch screen display, Human Machine Interface (HMI) Storage facility upto 1440 readings logged at 1 minute interval. Chamber readings, Data logger readings, events, Audit trail, Door access details.			
	PLC Based Safety control to protect the chamber from overshoot & undershoot of temp			
	Changing Set value of Master controller from HMI with password protection with auto log off			
	Compressor with CFC Free R134A / R404A / R407C (Eco Friendly) refrigerant. Complete with Compressor, Condenser, Evaporator and Other Accessories with Gas Charging.			
	Additional safety thermostat to cut off the supply in case of overshoot of temperature. • Compressors 'ON' delay time of 2 min. to safe guard the compressor. • MCB for over current protection • Safety controller sensor to cut off the supply in case of overshoot and undershoot of Temperature giving audio visual alarm			
	Chamber will be operated though HMI			
	In case of power failure (Main as well as UPS), chamber starts automatically once power resumes.			
9	LIQUID FILLING LINE			
9.1	Automatic 8 head servo based liquid filling Machine Cacility 240 BPM HMI/PLC based Operation Filling range from 30 ml to 500 ml		1	Nos
	Inline Machine: Rotary bottle washing machine Capping machine Measuring Cap Machine visual inspection machine Round container sticker labelling machine			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	The system will have numbers of recipe for automatic filling . Cleaning will be by auto recipe for automatic cleaning and pipelines . The system will have previlage system with multiple acess level with multiple users .the system will have partial 21 CFR compliance with HMI based operation.			
	Safety Door/guard will be provided			
	• All product contact parts in vessel and piping will be of SS316L and PTFE • All non-product contact parts in vessel and piping will be of SS304/Other preferred MOC			
10	FURNITURE			
10.1	Cross Over Bentch for Air Lock area With 250 mm Depth,Matt finish including Open Peigon Box, both side.Made from 20 gauge thickness .		1	Lot
	Hand Sanitizer stand made up with SS-304 for automatic hand sanitizer dispensing machine.			
	SOP stand made up with SS-304.			
	Garment Cabinet for Air Lock			
11	PURIFIED WATER SYSTEM			
	PW Sytem Capacity 2m³/Hrs			
11.1	PW generation system consists of 1st pass Chemical Sanitizable & 2nd pass Hot water Sanitizable RO-EDI System, with Stainless Steel control panel mounted on single Compact SS 304 Skid.		1	Nos
11.2	PW distribution 4000 Ltrs.Tank with Rockwool insulation and SS 304 Cladding for PW. Contact Parts SS316L Non Contact Parts SS304 Internally Electropolished Up to 240 Grit Externally Buff 180 Grit. Vertical Type, With Spray Ball attachment		1	Nos

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
11.3	PW distribution 3000 Ltrs.Tank with Rockwool insulation and SS 304 Cladding for PW. Contact Parts SS316L Non Contact Parts SS304 Internally Electropolished Up to 240 Grit Externally Buff 180 Grit. Vertical Type, With Spray Ball attachment		1	Nos
11.4	PW distribution 1000 Ltrs.Tank with Rockwool insulation and SS 304 Cladding for PW. Contact Parts SS316L Non Contact Parts SS304 Internally Electropolished Up to 240 Grit Externally Buff 180 Grit. Vertical Type, With Spray Ball attachment		1	Nos
11.5	Multipurpose tank 500 Ltrs.SS 304 Cladding. Contact Parts SS316L Non Contact Parts SS304 Internally Electropolished Up to 240 Grit Externally Buff 180 Grit.		1	Nos
	The distribution loop shall consist of distribution pump, UV system in supply line, and online instruments for measuring flow, pressure, temperature, conductivity in return line and capacitance type level sensor for monitoring level in the storage tank.			
	PW system is provided with auto-flush sequence through PLC.			
	The system will have numbers of recipe for automatic operation . Cleaning will be by auto recipe for automatic cleaning. The system will have previlage system with multiple acess level with multiple users .the system will have partial 21 CFR compliance with HMI based operation.			
	All joint are will be orbital welding with zero dead leg.			
	Vent filter will be sanitizable with provision of temperature control.			
	All valves will be zero dead leg valve. It should be sanitary construction having MOC of SS316L & EPDM diaphragm.			
	HSRO-EDI Pipes, Fitting & RO Housing Internally Electro polished to have SF of 0.4 µRa & External matt finish.			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	treated Water Quality of Purified Water Generation System (EDI OUTLET AS PER USP) pH : 5 to 7 Conductivity @ 25°C : <1.3 µs/cm TOC : <500ppb TVC : <100 CFU/ml			
	PW Sytem Consist			
	NaOCI DOSING SYSTEM			
	RAW WATER STORAGE TANK			
	MGF WATER FEED PUMP			
	MULTIGRADE FILTER (MGF)			
	SOFTENER			
	SOFT WATER TANK			
	RO FEED PUMP			
	ANTISCALANT DOSING SYSTEM			
	AUTO pH CORRECTION SYSTEM			
	MICRON CARTRIDGE			
	SMBS DOSING SYSTEM			
	RO HIGH PRESSURE PUMP			
	RO BLOCK PASS 1			
	CIP SYSTEM			

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: EQUIPMENTS				
Contract No: NIT/PT-21/26-27				
Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	HSRO FEED TANK/MULTIPURPOSE TANK			
	RO HIGH PRESSURE PUMP			
	RO BLOCK PASS 2			
	EDI UNIT			
	CONDUCTIVITY TRANSMITTER ,ORP AND pH TRANSMITTER			
	UV			
	TOC			
12	Air Compressor			
12.1	Oil Free Water Injected Air-Cooled Screw Air Compressor compressor having a minimum 100. cfm flow , pressure range 0 to 13 bar (Included standard accessories like valves, etc)		2	Nos
	Heatless Desiccant Air Dryer			
	External Air receiver to with stand the working pressure of 14 bar with accessories (manual drain-01 No., auto drain-01 No.(with bypass), pressure gauge with pneumatic syphon and valve01 No., safety valve-01 No. etc.)			
	Fine-Filter Float type auto drain having Maximum particle size-0.1 µm			
	Pre-Filter and After Filter size-0.1 µm			
	The system will have numbers of recipe for automatic operation . The system will have previlage system with multiple access level with multiple users .the system will have partial 21 CFR compliance with HMI based operation.			
	The System will be operate through HMI.			
13	Bursting Strength apparatus			

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: EQUIPMENTS				
Contract No: NIT/PT-21/26-27				
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PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
13.1	Capacity- High pressure 0 to 100 kg/cm2 , Accuracy-±0.5%		1	Nos

NAME OF WORK

AIR MOVING EQUIPMENT'S and HVAC CLEANROOM

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
1	2	3	4	5
Part-I	AIR MOVING EQUIPMENT'S			
1	Double Dacker Floor Mounted Air Handling Unit (All Blow Through Recirculation Type) For Class-D Area/CNC Area			
	Comprising of Following :			
	Supply installation testing and commissioning of double skin double decker air handling unit in 43±2 mm thick puff insulation complete with thermal break profile ,22 G inside GI sheet and 24 G GI outside sheet with precoating and with following section. Pre coated inner finishing of all the AHU sheet shall be considered.			
	AHU frame work shall be of Anodized Aluminum construction with thermal break profile & internal coving			
	Mixing chamber section of minimum 600 mm length of fresh air and return air.			
	Fresh air Cutout with EU-4 Filter With Volume Control Damper			
	Pre filter section with EU-5 (05µ) washable filter rating Efficiency (As per BS 6540, BS EN 779) to be provided with pressure sensing nozzles/ports suitable for DPS. (DPS in BMS Scope).			
	Sealing Gasket : Food Grade			
	PLUG type SUPPLY AIR FAN with high efficiency motor (IE-3), Motor Compatible with VFD to be provided with pressure sensing nozzles/ports suitable for DPS. (DPS in BMS Scope).			
	Bleed air with EU-9 (0.3µ) filter. (In classified area AHU)			
	DX Coil section with coil (6 / 8 row deep)			
	Coil face velocity should not exceed 500FPM.			

Item Rate BoQ				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	Heater section with Heating Coil KW capacity mentiond in AHU Details/ or can be duct mounted heater with control			
	Fine filter section with EU-9 (0.3μ) filter rating Efficiency (As per BS 6540, BS EN 779) to be provided with pressure sensing nozzles/ports suitable for DPS. (DPS in BMS Scope). (In classified area AHU)			
	Marine light (LED) with limit switch across all fan sections, door shall be provided with switch for marine light on / off outside the unit.There should be Provision for View Glass in the Fan Section.			
	Inlet and outlet connection of chilled water and Hot water shall be on same side with doors on opposite sides. Inlet & oulet Coil connection & door Orientation will be finalised AHU GA approval.			
	Opposed blade low leakage extruded aluminum volume control dampers For Supply & return air / Exhaust & fresh Air to be Provided. All dampers to be aerofoil profile and class as per BSEN:1751			
	Sandwich type 19 mm thick nitrile rubber Insulated SS 304 drain pan,Cable entry for motor and sufficient distance between all section.			
	All AHU Elec. Connection Cable (Motor , Lamp , Limit switch etc.) cable terminal end should be one junction box , box location on AHU.			
	All Cable & pipes should be Roxtec flexible sealed type.			
	Antivibration Rubber Pads for AHUs Installation.			
	All filters shall be flanged type & filter face velocity not to exceed 500 FPM.			
	All EU-4 filters shall be washable type.			
	All AHU will have Heater placed in AHU itself or that can be installed in Ducting as per design.			
	All filter section should come up with megnahalic gauge to check the filter condition			

Item Rate BoQ				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
Building A	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	FM-AHU-GF-06		1	Nos.
	FM-AHU-GF-07		1	Nos.
	FM-AHU-GF-08		1	Nos.
	FM-AHU-GF-09		1	Nos.
	FM-AHU-GF-10		1	Nos.
	FM-AHU-GF-11		1	Nos.
	FM-AHU-GF-12		1	Nos.
	FM-AHU-GF-13		1	Nos.
	FM-AHU-GF-14		1	Nos.
	FM-AHU-GF-15		1	Nos.
	FM-AHU-GF-16		1	Nos.
	FM-AHU-GF-17		1	Nos.

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	FM-AHU-GF-18		1	Nos.
	FM-AHU-FF-01		1	Nos.
	FM-AHU-FF-02		1	Nos.
	FM-AHU-FF-03		1	Nos.
	FM-AHU-FF-04		1	Nos.
	FM-AHU-FF-05		1	Nos.
Building B	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	FM-AHU-GF-06		1	Nos.
	FM-AHU-GF-07		1	Nos.
	FM-AHU-GF-08		1	Nos.
	FM-AHU-GF-09		1	Nos.
	FM-AHU-GF-10		1	Nos.
	FM-AHU-GF-11		1	Nos.

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	FM-AHU-GF-12		1	Nos.
	FM-AHU-GF-13		1	Nos.
Building C,D	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	FM-AHU-GF-06		1	Nos.
	FM-AHU-GF-07		1	Nos.
	FM-AHU-GF-08		1	Nos.
	FM-AHU-GF-09		1	Nos.
	FM-AHU-GF-10		1	Nos.
	FM-AHU-FF-01		1	Nos.
	FM-FDV-FF-01		1	Nos.
Building E	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.

Item Rate BoQ				
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Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
2	Air Cooled Condensing-Unit			
Building A+B+C, D=E				
	Supply of Air-cooled condensing units of specified tonnage capacity, each complete with the following major items:			
	Air-cooled condenser/s with accessories; having heat-transfer seamless copper tube coils with aluminium fins, axial / propeller fans, motors, etc.			
	With Exapansion Valve and necessary connections			
	Compressor shall be inverter driven type.			
	Outdoor condensing unit comprising of hermetic - scroll / rotary compressor's, condenser coils, propeller / axial fans pressure switches / cutouts etc.			
	Controls, safety cutouts including high & low pressure cutouts, oil safety cutout, adjustable thermostatic control of room temperature at RA level; refrigerant filters & dryers, copper control tubing, expansion device, etc. (Exp. device for cooling coil must be designed & supplied by Cond.Unit mfr)			
	Rubber vibration isolators & mounting arrangement for vibration-free operation of all equipment			
	Necessary Refrigerant Gas R-410A/R-32 and oil charge.			

Item Rate BoQ				
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Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	10 Rmts. refrigerant pipes, pipe fittings, GI angles / flats supports, accessories, 19mm thick nitrile rubber tube insulation for entire piping system (including UV & glass-cloth mechanical protection for exposed pipes). Refrigerant piping on terrace shall be installed on GI pipe tray, and finally covered with GI sheet cover.			
1	DX ODU (2.2 TR)		5	Nos.
2	DX ODU (3.0 TR)		4	Nos.
3	DX ODU (5.5 TR)		18	Nos.
4	DX ODU (8.5 TR)		28	Nos.
4	DX ODU (11 TR)		6	Nos.
5	GAS CHARGING R410/R32 or SIMILAR FOR EXTRA PIPE LENGTH		1	KG
6	EXTRA PIPING		1	RMT
3	ELECTRICAL PANEL			
Building A+B+C, D=E				
	Design, Supply, Installation, Testing & Commissioning of Dedicated Power Panel (For AHUs) located near the AHU for HVAC system. The panel should consists of incomer MCCB with appropriate rating, starter with suitable O/L relay, ON/OFF push buttons & ON/OFF/TRIP indicating lamps with control circuitory as per system requirement. Panel with space provision for Variable Frequency Drive (VFD) and Stand alone controller. Control panel should include T&RH; Display (WITH STAND ALONE CONTROLLER), VFD, Bypass starter, Heater Control , Heater to be given in Ducting, etc		53	Nos.
4	VARIABLE FREQUENCY DRIVES (VFDs)			

Item Rate BoQ				
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Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	Supply / Installation / Testing / Commissioning of Variable Frequency Drives (VFDs) for AHU motors, to be located in Electrical panel.			
Building A	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	FM-AHU-GF-06		1	Nos.
	FM-AHU-GF-07		1	Nos.
	FM-AHU-GF-08		1	Nos.
	FM-AHU-GF-09		1	Nos.
	FM-AHU-GF-10		1	Nos.
	FM-AHU-GF-11		1	Nos.
	FM-AHU-GF-12		1	Nos.
	FM-AHU-GF-13		1	Nos.
	FM-AHU-GF-14		1	Nos.
	FM-AHU-GF-15		1	Nos.
	FM-AHU-GF-16		1	Nos.

Item Rate BoQ				
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Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	FM-AHU-GF-17		1	Nos.
	FM-AHU-GF-18		1	Nos.
	FM-AHU-FF-01		1	Nos.
	FM-AHU-FF-02		1	Nos.
	FM-AHU-FF-03		1	Nos.
	FM-AHU-FF-04		1	Nos.
	FM-AHU-FF-05		1	Nos.
Building B	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	FM-AHU-GF-06		1	Nos.
	FM-AHU-GF-07		1	Nos.
	FM-AHU-GF-08		1	Nos.
	FM-AHU-GF-09		1	Nos.
	FM-AHU-GF-10		1	Nos.

Item Rate BoQ				
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Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	FM-AHU-GF-11		1	Nos.
	FM-AHU-GF-12		1	Nos.
	FM-AHU-GF-13		1	Nos.
Building C,D	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	FM-AHU-GF-06		1	Nos.
	FM-AHU-GF-07		1	Nos.
	FM-AHU-GF-08		1	Nos.
	FM-AHU-GF-09		1	Nos.
	FM-AHU-GF-10		1	Nos.
	FM-AHU-FF-01		1	Nos.
	FM-FDV-FF-01		1	Nos.
Building E	FM-AHU-GF-01		1	Nos.
	FM-AHU-GF-02		1	Nos.

Item Rate BoQ				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
	FM-AHU-GF-03		1	Nos.
	FM-AHU-GF-04		1	Nos.
	FM-AHU-GF-05		1	Nos.
	Total Amount			
Part-II	HVAC CLEANROOM			
1	Supply, Installation & Testing of Pre Fabricated GI Ducting			
	Supply and Installation of Factory Fabricated GI Ducting as per SMACNA standard & leakage test. All ducting shall be applied with RTV sealant & 3 mm thick food grade quality Neoprene Rubber gasket strips, GI nut-bolts etc. as per the following quantities :			
	The ducting shall include GI threded supporting rods ,bends,tees, elbows,Y piece, taper pieces, turning vanes, reducer,expander, blind flanges etc.All (flanges and supports)			
1.1	24 Gauge		5000	MT2
1.2	22 Gauge		2000	MT2
2	Supply & Installation of Duct Insulation			
	Duct Insulation with self adhesive, With Aluminum foil Faced; XLPE Type duct indulation , class O insulation as per thickness specified, Aluminium tape shall be applied on all transpose & longitudinal joints. The adhesive cost and Taping cost should be inclusive in the insulation rate . Adhesive used for setting the insulation will be non-flammable, vapour proof adhesive			
2.1	Supply Air Duct 19mm thick		4000	MT2

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
2.2	Return Air Duct 13mm thick		4000	MT2
	(Measurment as per finished surface only)			
3	ACCESSORIES			
	Supply, Installation & Testing & Commissioning of Diffusers :			
	Four way Supply Air Diffusers of Extruded Aluminium powder-coated complete with VCD (No MS parts): Diffuser should be anti smudge removable core type			
3.1	Diffuser Size: 600mmX600mm, Airflow capacity: 1000 CFM		25	Nos
3.2	Diffuser Size: 300mmX300mm, Airflow capacity: 350 CFM		25	Nos
4	Four way Return Air Diffusers of Extruded Aluminium powder-coated complete with VCD (No MS parts): Diffuser should be anti smudge removable core type			
4.1	Diffuser Size: 600mmX600mm, Airflow capacity: 1000 CFM		25	Nos
4.2	Diffuser Size: 300mmX300mm, Airflow capacity: 350 CFM		25	Nos
5	Supply, Installation & Testing & Commissioning of Duct Dampers			
	Low leakage Duct Dampers (suitable for motorised operation) Opposed blade aerofoil construction of extruded Al. for RA riser & duct branches & blades both should be of Al. construction.		40	Sq Mtr
6	Supply, Installation & Testing & Commissioning of Fire Dampers			
6.1	Fire Dampers UL-555 listed, 120 minute rating.		22	Sq Mtr
6.2	Fusible link / LIMIT SWITCH		57	Nos
6	Supply, Installation & Testing & Commissioning of Fire Dampers			

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
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Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
6.1	Fire Dampers UL-555 listed, 120 minute rating.		22	Sq Mtr
6.2	Fusible link / LIMIT SWITCH		57	Nos
7	MS Material for support, frame, stand etc. (With 2 Coat paint and 1 Coat Primer)		8000	Kg
8	DRAIN PIPING with Insulation			
	Supply, installation, testing and commissioning of UPVC drain piping complete with fittings, 'U' traps, supports for below pipe size.			
8.1	40mm Ø		300	Mtr
8.2	50mm Ø		300	Mtr
9	DUCT MOUTED TEMPERATURE & RH TRANSMITTER			
	Supply, Installation, Testing & Commissioning of Duct Mouted Temperature & RH Transmitter. Power Supply: 24 VDC, Temperature Range: 0°c to 70°c. RH Range: 0% to 100%. RH Accuracy: +/-2%. Temp. Output: 4 to 20 mA/ 0 to 10V. RH Out put: 4 to 20 mA/ 0 to 10V.		51	NOS
10	DP TRANSMITTER ACROSS FILTER AND BLOWER		51	NOS
	STAND ALONE CONTROLLER			
	Stand alone HVAC controller (for Muti pupose system) with minimum 4 Analog Input, 8 Digital Input, 3 Analog Output and 6 Digital Outputs to be provided. Controller should be provided with modbus RS485 communication facitity to communicate with BMS. Controller to be located in Electrial Panel. 1) Controller shall be used for DX/Chilled Water Valve & Heater based on the room Temperature & RH requirement.		51	NOS
11	SITC of Magnehelic gauges			
	Magnehelic Gauges for diffrential pressure measuring in room range 0 to 80 PA with CRCA Powder Coated Box and ss-304, 16 gauge front plate. Probes and tubes at different rooms. (0-60 PA)		280	NOS

Item Rate BoQ				
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Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
12	CABLE TRAY/PIPE RACK WITH COVER			
12.1	GI Cable Tray (300X50) mm		200	RMT
12.2	GI Cable Tray (150X50) mm		160	RMT
12.3	GI Cable Tray (50X20) mm		200	RMT
13	Shilded copper control cabling between HVAC panel boards, equipment, controls, cutouts, interlocking, local isolators, etc		1500	RMT
14	Earthing: 8 Gauge Cupper Earthing cable for AHU equipment & controls.		1500	LOT
15	Armoured Aluminium/Copper power FRLS cabling between HVAC equipment/Odu, controls, controllers, HVAC panel boards; including terminations: All Cables XLPE.		1500	RMT
16	Supply, Installation, Testing & Commissioning of Terminals Hepa Filters :			
	Standard Gel Seal type miniplete HEPA filter EU-14 of 99.999% efficient as BSEN1822 (bottom loading) ceiling mounted Terminal Box, prob for POA testing & pressure drop measurement			
	SS-304 (18 G)capsule shape perforated plate, Damper, flexible connection , port for DOP testing and pressure drop measurement .			
16.1	610X610 mm - 1000 CFM		100	NOS
16.2	450X450 mm - 500 CFM		120	NOS
16.3	305X305mm - 250 CFM		80	NOS

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
17	Validation of entire HVAC system including AHUs, & Ventilation units. Including all necessary monitoring of temp./RH/Pressure Gradient with hourly intervals, PAO test,particle count,smoke flow pattern video and duct leakage test with print out of result as per SMACNA standard (DW 144). All validation should be as per ISO 14644 standards.(IF REQUIRED)		1	LOT
18	Documentation			
18.1	As-built documentation including but not limited to AHU summary sheet, RCP, AHU zoning, Pressure zoning, Ducting layouts, piping layouts for refrigerant, equipment location, room book			
	DQ, IQ, OQ & PQ Documentation with making complete report with testing for temp., humidity, pressure gradient, class conditions at rest & at operation with all required drawings, data sheets, design basis, technical specifications etc. to compete the report for the approval of competent third party authority. The work shall also includes the preparation of as built drawings as per the actual work execution at site. All above document along with test certificates, readings and as built drawing shall have to be submitted in 3 sets with soft copy of the same.		1	LOT
19	Technical Area Ventilation			
	Tube Axial Flow Ventilation Air Fans for technical area/DG Room/STP Room			
	Supply, installation, testing and commissioning of Fire Rated Axial Fans, complete with TEFC motor, drive and vibration spring isolators, flexible connections, bird screen & back draft damper . Motor shall be suitable for 415 ± 10% volts, 50 cycles, 3 phase AC supply and shall have high efficiency motors. Fan static pressure is mentioned below. The fans should be AMCA certified for air performance & sound ratings. To achieve specified DB levels, sound attenuators of suitable length shall be provided at inlet /outlet of the fans must be included in the cost). The fans ,motors and complete assembly shall be suitable for 300 Deg C for 2 hour fire rating.			
19.1	2500 CFM WITH 20 MM STATIC FOR SERVICE AREA (For Exhaust)		2	NOS
19.2	2500 CFM WITH 20 MM STATIC FORSERVICE AREA (For Supply)		2	NOS

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: AIR MOVING EQUIPMENT'S and HVAC CLEANROOM				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description / AHU NO.	Item Code / Make	Quantity	Units
20	ELECTRICAL PANEL			
	Design, Supply, Installation, Testing & Commissioning of Dedicated Power Panel (For Ventilation Fans) located near the AHU for HVAC system. The panel should consists of incomer MCCB with appropriate rating, starter with suitable O/L relay, ON/OFF push buttons & ON/OFF/TRIP indicating lamps with control circuitory as per system requirement.		2	NOS
21	Ceiling Suspended Inline Ventilation Fans			
21.1	500 CFM With 35 mm static (Supply)		12	NOS
21.2	500 CFM With 35 mm static (Exhaust)		12	NOS

NAME OF WORK

VRV BOQ

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: VRV BOQ				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	AIR COOLED VRV/VRF Outdoor Units			
	Comprising of Following :			
	Supplying, installing, testing and commissioning of Modular type Variable Refrigerant Flow/ Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above14HP modules, microprocessor based Controller, topdischarge type condensing unit(s), withR 410A Refrigerant, vibration isolators, with suitable foundation etc. complete as required.The unit shall deliver the rated capacity at AHRI Conditions and work evenat 50°C ambient temperature without tripping.The unit shall be suitable to work on 400V+/-10%, 3Phase, 50Hz AC power supply.The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5			
	Unit should be floor mounted in MS Stand along with proper isolators and support			
a	20 HP (Multi Compressor)		3	Nos
2	Indoor 4-Way Type Cassette Unit			
	Supply, installation, testing and commissioning of following minimum capacity 4-way flow VRV/VRF CassetteType Indoor ceiling mounted unit equipped with synthetic washable media pre-filter,fan section with low noise fan/dynamically balanced blower,multi speed motor,coil section with DX Copper coil,electronic expansion valve,outer cabinet, drain pump, grill, necessary supports,vibration isolation, cordless remote control etc., suitable for operationon single phase230V±10%,50Hz AC supply,complete,as required.			
A	0.8 TR COMPACT 4 WAY CASSETTE (COMPACT TYPE)		15	Nos
B	1.0 TR COMPACT 4 WAY CASSETTE (COMPACT TYPE)		14	Nos

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: VRV BOQ				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
C	1.6 TR 4 WAY CASSETTE		2	Nos
D	2.6 TR 4 WAY CASSETTE		2	Nos
E	3.2 TR 4 WAY CASSETTE		5	Nos
3	COPPER VRV PIPING			
	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/ hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/ brazing including accessories, insulated with XPLE Class-O tubular insulation/ with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquidlines,all accessories as per specifications etc. as required. All pipe rates shall include support/laying/hanging material with it's accesories		1	Lot
	(Vendor have to fill the rates on Lot basis, after finalising the order they may visit the site and measure the length to submit the pipe rates according to dia.			
4	GAS CHARGING (R410A)			
a	GAS 410 A		45	KG
5	REFRIGERANT JOINTS			
a	Y Joints		35	Nos
b	T Joints		3	Nos
6	MS Material			
	Supply and installation of MS Material for support, stand etc work. Each work should completed with one coat of red oxide paint and two coat of emulsion with proper finishing of welded joints		300	KG

Item Rate BoQ				
Tender Inviting Authority: FM ,Gluconate Health Limited				
Name of Work: VRV BOQ				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
7	Power Cable		1	Lot
	Supply installation testing and comissioning of power wiring from indoor to outdoor with all necessary hanging arrangement and termination			
	(Vendor have to fill the rates on Lot basis, after finalising the order they may visit the site and measure the length to submit the cable rates according to req.)			
8	Control Cable			
	Supply installation testing and comissioning of power wiring from indoor to outdoor with all necessary hanging arrangement and termination		1	Lot
	(Vendor have to fill the rates on Lot basis, after finalising the order they may visit the site and measure the length to submit the cable rates according to req.)			
9	Drain Piping			
a	PVC Drain Pipe 25 MM Dia		100	Rmt
b	PVC Drain Pipe 32 MM Dia		150	Rmt
10	DX Hi Wall Unit			
	Supply and installation of DX Hi-Wall unit which include all accessories like wire, copper pipe upto 20 feet, expansion valve, control and power wire, remote control etc. Unit shall be inverter type with R-32 Green refrigerant			
a	1.5 TR HI-WALL UNIT (With outdoor)		4	Nos

NAME OF WORK

RO PIPING

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: RO PIPING				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
I	RO Piping Variable 1.5"	itemH1		
1	Tube make SS 304, 1.5"x 16 SWG		500	Meter
2	Tube make SS 304, 1"x 16 SWG		300	Meter
3	Bend 304, 1.5"x 90 PL		150	Nos
4	Bend 304, 1"x 90 PL		100	Nos
5	1.5" TC liner, SS 304		200	Nos
6	1" TC liner, SS 304		150	Nos
7	TC Clamp 1.5", (Investment Casting) - SS 304		150	Nos
8	Silicon Gaskets 1.5"		300	Nos
9	Silicon Gaskets 1"		150	Nos
10	Manual Operated Zero Dead Leg Valves for Loop, 1.5", Invest Cast Body, SS316L, EPDM Diaphragm.		55	Nos
11	Pipe Support assembly 304 1.5" BSP at service floor area		330	Nos
II	PW Installation Charges			
1	Laying Of Pipe Fixing charges-1.5"OD		500	Mtr
2	joint Prepration Charges-Orbital welding 1.5"OD		300	Nos
3	Laying Of Pipe Fixing charges-1"OD		300	Mtr
4	joint Prepration Charges-Orbital welding 1"OD		150	Nos

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: RO PIPING				
Contract No: NIT/PT-21/26-27				
Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
5	Documentation charges		1	Lot
6	Hydrotest Charges		1	Lot
7	Passivation Charges		1	Lot
8	Boroscopy charges-10% Of Total Nos Of Joints.		2	Lot
9	Site Mobilization Charges		1	Lot

NAME OF WORK

P.W Pipeline

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: P.W Pipeline				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	PW Piping Variable 2"			
1	Tube make SS316 L, 2"x 16 SWG Inside RA<0.4,Outside Matt Finish.		400	Meter
2	Tube make SS316 L, 1.5"x 16 SWG Inside RA<0.4,Outside Matt Finish.		300	Meter
3	Tube make SS316 L, 1"x 16 SWG Inside RA<0.4,Outside Matt Finish.		200	Meter
4	Bend 316L, 2"x 90 PL Inside RA<0.4,Outside Matt Finish.		150	Nos
5	Bend 316L, 1.5"x 90 PL Inside RA<0.4,Outside Matt Finish.		150	Nos
6	Bend 316L, 1"x 90 PL Inside RA<0.4,Outside Matt Finish.		150	Nos
7	2" TC liner, SS 316L		120	Nos
8	1.5" TC liner, SS 316L		200	Nos
9	1" TC liner, SS 316L		120	Nos
10	TC Clamp 2", (Investment Casting) - SS 304		60	Nos
11	TC Clamp 1.5", (Investment Casting) - SS 304		100	Nos
12	TC Clamp 1", (Investment Casting) - SS 304		60	Nos
13	Silicon Gaskets 2"		120	Nos
14	Silicon Gaskets 1.5"		200	Nos
15	Silicon Gaskets 1"		120	Nos
16	Manual Operated Zero Dead Leg Valves for Loop, 2", Invest Cast Body, SS316L, EPDM Diaphragm.		85	Nos

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: P.W Pipeline				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
17	Manual Operated Zero Dead Leg Valves for Loop, 1.5", Invest Cast Body, SS316L, EPDM Diaphragm.		1	Nos
18	Manual Operated Zero Dead Leg Valves for Loop, 1", Invest Cast Body, SS316L, EPDM Diaphragm.		1	Nos
19	Pipe Support assembly 304 2" BSP at service floor area		120	Nos
20	Pipe Support assembly 304 1.5" BSP at service floor area		200	Nos
21	Pipe Support assembly 304 1" BSP at service floor area		120	Nos
II	PW Installation Charges			
1	Laying Of Pipe Fixing charges-2"OD		400	Mtr
2	joint Prepration Charges-Orbital welding 2"OD		120	Nos
3	Laying Of Pipe Fixing charges-1.5"OD		400	Mtr
4	joint Prepration Charges-Orbital welding 1.5"OD		120	Nos
5	Laying Of Pipe Fixing charges-1"OD		200	Mtr
6	joint Prepration Charges-Orbital welding 1"OD		100	Nos
7	Documentation charges		1	Lot
8	Hydrotest Charges		1	Lot
9	Passivation Charges		1	Lot
10	Boroscropy charges-10% Of Total Nos Of Joints.		2	Lot
11	Site Mobilization Charges		1	Lot

NAME OF WORK

COMPRESSED AIR PIPE & Accessories fittings

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: COMPRESSED AIR PIPE & Accessories fittings				
Contract No: NIT/PT-21/26-27				
Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	BILL OF QUANTITIES OF COMPRESSED AIR PIPING & ACCESSORIES			
1	SS Pipes : ASTM 304, ERW , Sch 10s / Dimension Suitability to ANSI B36.19		300	Mtr
			200	Mtr
			300	Mtr
2	SS Flange : SS 304, Silp on type, Serrated Finish, Raised face, Dimensional Suitability to ANSI B 16.5, Pressure Rating : ASA # 150 Make : STANDARD		1	Nos
			1	Nos
			24	Nos
3	Elbows 90 o- Long radius (R-1.5D) : SS 304 90o Elbows, material to A234 Grade WPB,Sch.10 Dimensional suitability to ANSI B 16.9 Ends to be Butt weld type		180	Nos
			120	Nos
			50	Nos
4	Gaskets : Ring Cut Metalic Gasket, Suitable for insertion between ANSI B 16.5, Raised face ASA 150 # Flange		1	Nos
			1	Nos
			24	Nos
5	Ball valve : Ball valve : SS304 Ball Valves with SS 304 working parts, three-piece design, PTFE Seat,full bore, Screwed ends to BSPT. 15NB to 25NB Screwed end.25NB ABOVE Flanged ends,		15	Nos
			20	Nos

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: COMPRESSED AIR PIPE & Accessories fittings				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
			10	Nos
6	SS Ball Valve : SS 304 / Seal PTFE / TC End		105	Nos
8	T.C.Union : T.C.Liner - 02 Pcs: SS 316L /Sch 10 / Externally & Internally Mirror polish / T.C.Clamp: 01 Pcs : SS 304 /Casted / Externally mirror Polish / T.C.Gasket : - 01 Pcs Silicon Food Grade		200	Set
9	Pipe Holding Clamp Assembly : SS 304 (1 No. SS 304 Pipe Holding Clamp with 3" Long nipple, base plate, 2 No. anchor fastners		200	Nos
10	Nuts & Bolts : SA 240, SS-304 bolts, fully threaded with Hexagonal Nuts & A Pair of Washers		0	Set
			200	Set
				Set
11	Pressure Guage, Bourden type : Dial 100mm, Pressure Range : 0-10kg/cm2 With Syphon & Cock.		2	Nos
12	0.2 Micron filter with ss housing		70	Nos
13	Fabrication & erection of welded supporting structure like platform for equipments, railings, ladders etc. as per site condition, fabricated out of MS angles, Chanel, flats, plates section, & pipes etc and fixing of the same by anchor bolts or grouting as required.		2000	KG
II	INSTALLATION WORK			
1	LAYING OF PIPE FIXING CHARGES		300	Mtr
			200	Mtr
			300	Mtr

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: COMPRESSED AIR PIPE & Accessories fittings				
Contract No: NIT/PT-21/26-27				
Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
2	JOINT PREPRATION CHARGES-MANUAL WELDING		180	NOS
			60	Nos
			50	Nos
3	Pnumatic/Hydrotest charges		1	Time
4	Documentation charges		1	Time

NAME OF WORK

LOW PRESSURE STEAM

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: LOW PRESSURE STEAM				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	Pipes (in Mtrs) : Steel Pipes designed to IS 1239 ERW 'C'- Class , Pipe ends to be bevelled		240	Mtr
			200	Mtr
			100	Mtr
			1	Mtr
			100	Mtr
			1	Mtr
2	Flanges : Carbon Steel forged flanges of ASTM - A - 105 Slip On Type,Serrated Finish,Raised face Dimensional Suitability to ANSI B 16.5 Flanges to suit ASA 150# pressure Rating		6	Nos
			12	Nos
			1	Nos
			1	Nos
			24	Nos
			1	Nos
3	Gaskets : Ring type gaskets of CAF Permanite Oil, Suitable for insertion between ANSI B 16.5, Raised face, ASA 150 # rated flanges, (Make: Champion)		12	Nos
			24	Nos
			1	Nos
			1	Nos

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: LOW PRESSURE STEAM				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
			24	Nos
			1	Nos
4	REDUCER-ERW C Class Dimensional suitability to ANSI B 16.9 Ends to be Butt weld type		4	Nos
			4	Nos
			4	Nos
5	Elbows 90 o- Long radius (R-1.5D) : Carbon steel 90o Elbows, ERW C Class Dimensional suitability to ANSI B 16.9 Ends to be Butt weld type		20	Nos
			30	Nos
			30	Nos
			1	Nos
			30	Nos
			1	Nos
6	Globe valve / Piston Valve : Body:SA 105 ,SS internals End Connections flanged to ASA 150#		5	Nos
			4	Nos
			4	Nos
			1	Nos
			12	Nos
			1	Nos

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: LOW PRESSURE STEAM				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
7	Nuts & Bolts : Carbon steel black machined hexagonal headed bolts, fully threaded with hexagonal nuts & a pair of washers. Material to ASTM A193 Gr B7 and ASTM A 154 Gr.24		100	Set.
			100	Set.
			1	Nos
8	Air vent assembly : ASTM A 105 body, ASTM A 276 valve seat with inbuilt screen, air bottle, Screwed to BSPT with Isolation ball valve (SA 105) CS ,stand pipe ,IS 1239 `H' Class		5	Nos
9	Insulation for piping : Insulation of all pipelines with Rock Wool density 85 Kg/Cum for Temp. 65- 399 DEG.C Complete with Al Cladding of 24 SWG Mineral wool (Minrock/rockwool)		250	Mtr
			210	Mtr
			110	Mtr
			1	Mtr
			110	Mtr
			1	Mtr
10	steam trap:-CI ,Screw End		19	Nos
11	Pressure gauge : Bourden type, 100mm Dial, 0-200 PS 1, With syphon pipe & cock, (Makes : H- Guru)		4	Nos

NAME OF WORK

ELECTRICAL WORK

Item Rate BoQ				
Tender Inviting Authority: FM, Gluconate Health Limited				
Name of Work: ELECTRICAL WORK				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
	Annexure A			
A.	H.T. SWITCH YARD WITH TRANSFORMER INSATALLATION			
	All the system shall be as per dwg & specifications and as per IE rules.			
A.1	Complete liasioning work with state Electricity Board /Electricity directorate in cluding preparation & submission dwg/papers as per rules of state and Electricity Board regulations, follow up & getting the approval for installation, Sanction of power & connection complete work to be arranged in a manner so as to get the over energised by electricity supply agency and approved by the electrical inspector in time schedule. The job shall comprise of complete liasioning work for power.		1	L.S
A.2	Supply, Loading, Unloading, Shifting, Installation, Testing & Commissioning of 11kV HT VCB Panel - Outdoor [1No.800A VCB Incomer &1Nos. 800A (26.3KA for 1 Sec.) Outgoing With Cable In/ Cable Out] With All Metering & Protection Release, Transformer Protecion Relays, Power Pack, Annunciation, Accessories etc.		1	No's
A.3	Supply, Loading, Unloading, Shifting, Installation, Testing & Commissioning of 1000KVA ,11KV/ 0.433KV , 3 Phase, 50 Hz Oil type copper wound transformer . The electrical contractor shall execute all work of interconnection of transformer. The Transformer is with OLTC and installation, testing & commissioning of RTCC panel shall be a part of the scope of work of bidder.		1	No's
A.4	Supply, Loading, Unloading, shifting, Installation, testing & commissioning of a 500 KVA , 415V, 3 Phase, 50 Hz DG Set With AMF Panel and exhaust system / chimany. The electrical contractor shall execute all work of interconnection of DG Sets (Alternator) to AMF/ Snch. Panel.		1	No's
A.5	SAFETY EQUIPMENTS.			
A.5.1	Supply & Fixing of Caution Boards.		2	No's
A.5.2	Supply & Fixing of Shock Treatment Chart in English & Hindi Language fixed on Ply & covered with 3mm thick plain glass.		2	No's

Item Rate BoQ				
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PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
A.5.3	Supply of 11KV hand gloves duly tested.		2	Pair
A.5.4	Supply of 11KV DO Isolator Rod.		1	No.
A.5.5	Supply of Filled First Aid box complete with all standard medicines as per I.E rules.		2	No.
A.5.6	Supply & Fixing of HT 6mm (2m x 1m) Rubber Mat for 11KV		5	No's
A.5.7	Supply, Filling & fixing of following type of fire extinguishers in electrical room			
	a) CO2 type fire extinguisher 5 kg		3	No.
	b). Dry Powder type 5 Kg.		3	No.
A.5.8	Supply & Filling & fixing of following type of safety items in electrical room			
	a). Sand bucket stand with 5 nos. MS. Buckets.		2	Set
	Annexure B			
B.	LT PANELS & DIST. BOARD			
B.1	L.T. PANELS			
	Supply, Loading, Unloading, Shifting at respective floor, Alignment, Installation, Grouting, Levelling, Interconnection of Shipping Section, matching of each section, & commissioning of Free Standing Floor Mounted Panel as per Panel Location Layout.			
B.1.1	LT PCC Panel (As per Drg no.)		1	No.
B.1.2	UTILITY PANEL (As per Drg no.)		1	No.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
B.1.3	PROCESS PANEL (General Tablet,Beta RM,PPM,Bottle Line//PPM) (As per Drg no.)		3	No.
B.1.4	PDB PANEL (General Tablet,Beta RM,PPM,Bottle Line//PPM) (As per Drg no.)		3	No.
B.1.5	HVAC PANEL (General Tablet,Beta RM,PPM,Bottle Line//PPM) (As per Drg no.)		3	No.
B.1.6	MLDB PANEL (General Tablet,Beta RM,PPM,Bottle Line//PPM) (As per Drg no.)		4	No.
B.1.7	UPS PANEL (General Tablet,Beta RM,PPM,Bottle Line//PPM) (As per Drg no.)		3	No.
B.1.9	APFCR PANEL (As per Drg no.)		1	No.
B.1.10	EXTERNAL LIGHT PANEL (As per Drg no.)		1	No.
B.2	DISTRIBUTION BOARDS.			
	Supply, Loading, Unloading, Shifting, Levelling, Installation, Testing & Commissioning of following Distribution boards shall be of wall mounted type to be concealed in wall and shall have top cover plate as per detail given in the dwg.			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
B.2.1	PSDBs_(3-Ph) 12 Way IP-43 Protection, Double Door Type Incomer : 259A TPN MCCB Outgoing : 12Nos 32A TPN MCB, C Curve (General Tablet,Beta RM,PPM,Bottle Line//PPM),Raw Material)		4	No.
B.2.2	PSDBs_(1-Ph) 12 Way IP-43 Protection, Double Door Type Incomer : 63A TPN MCB Sub Incomer/Phase : 63A DP RCBO (30mA) Outgoing : 24Nos (8 per Phase). 16A SP MCB, C Curve (General Tablet,Beta RM,PPM,Bottle Line//PPM),Raw Material)		8	No.
B.2.3	PSDBs_(1-Ph) 6 Way IP-43 Protection, Double Door Type Incomer : 63A TPN MCB Sub Incomer/Phase : 63A DP RCBO (300mA) Outgoing : 18Nos (6 per Phase). 25A SP MCB, C Curve		1	No.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
B.2.4	UPSDBs_(1-Ph) 8 Way IP-43 Protection, Double Door Type Incomer : 63A TPN MCB Sub Incomer/Phase : 32A DP RCBO (300mA) Outgoing : 18Nos (6 per Phase). 25A SP MCB, 10KA, B Curve		8	No.
B.2.5	LSDBs- 8 Way IP-43 Protection, Double Door Type Incomer : 63A TPN MCB Sub Incomer/Phase : 32A DP RCBO (100mA) Outgoing : 24Nos (8 No. / Phase). 16A SP MCB, 10KA, B Curve		8	No.
B.2.5	ELDBs- 8 Way IP-43 Protection, Double Door Type Incomer : 32A TPN MCB Sub Incomer/Phase : 25A DP RCBO (100mA) Outgoing : 12Nos (4 No./ Phase). 10A SP MCB, 10KA, B Curve		8	No.
	Annexure C			
C.	CABLING & TERMINATION			

Item Rate BoQ				
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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
C.1	Laying of cables in Excavated Trenches, Concrete Trenches, along walls, through hume pipes, Conduit, Floor Race Way, Cable Trays etc. The scope includes supply & fixing of aluminium cable tags (at both ends). Clamps/ saddles hardware for dressing of cables are included in the scope of contractors. Jot to be done as per drawing, specifications & instructucons of consultants.			
C1.1	Supplying & Laying of 1.1KV Grade XLPE Insulated power cable of Stranded compacted shaped Aluminium conductors, provided with a common covering of PVC inner sheath as per IS : 7098 (Part - I), Galvanized steel armoured and PVC outer sheathed of type ST2 PVC compound Confirming to IS: 5831. (Flame Retardant (FR), Flame Retardant Low Smoke (FRLS), to suit a variety of environment and fire risk condition). Type A2XFY/ A2XWY :			
a	1C x 1000 Sq.mm		1	Mtr.
b	3.5C x 300 Sq.mm		1800	Mtr.
c	3.5C x 240 Sq.mm		1	Mtr.
d	3.5C x 185Sq.mm		700	Mtr.
e	3.5C x 150Sq.mm		1	Mtr.
f	3C x 150Sq.mm		1	Mtr.
g	3.5C x 120 Sq.mm		400	Mtr.
h	3C x 120 Sq.mm		1	Mtr.
i	3.5C x 95 Sq.mm		1	Mtr.
j	3C x 95 Sq.mm		1	Mtr.
k	3.5C x 70 Sq.mm		1100	Mtr.
l	3C x 70 Sq.mm		1	Mtr.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
m	3.5C x 50 Sq.mm		1	Mtr.
n	3C x 50 Sq.mm		1	Mtr.
o	3.5C x 35 Sq.mm		950	Mtr.
p	3C x 35 Sq.mm		1	Mtr.
q	3.5C x 25 Sq.mm		1	Mtr.
r	3C x 25 Sq.mm		1	Mtr.
s	4C x 16 Sq.mm		1700	Mtr.
t	3C x 16 Sq.mm		1	Mtr.
C1.2	1.1KV Grade XLPE Insulated power cable of Stranded compacted shaped Copper conductors, provided with a common covering of PVC inner sheath as per IS : 7098 (Part - I), Galvanized steel armoured and PVC outer sheathed of type ST2 PVC compound Confirming to IS: 5831. (Flame Retardant (FR), Flame Retardant Low Smoke (FRLS), to suit a variety of environment and fire risk condition). Type 2XWY/2XFY:			
a	4C x 10 Sq.mm		1700	Mtr.
b	3C x 10 Sq.mm		1	Mtr.
c	4C x 6 Sq.mm		1300	Mtr.
d	3C x 6 Sq.mm		1	Mtr.
e	4C x 4 Sq.mm		2100	Mtr.
f	3C x 4 Sq.mm		1	Mtr.
g	4C x 2.5 Sq.mm		1650	Mtr.

Item Rate BoQ				
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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
h	3C x 2.5 Sq.mm		1	Mtr.
i	4C x 1.5 Sq.mm		1	Mtr.
j	3C x 1.5 Sq.mm		1	Mtr.
C.1.3	1.1KV Grade HR PVC control cable (multi core with multi colour), Circular stranded (rm) annealed stranded Copper Conductor PVC insulated and provided with a common covering of PVC inner sheath, Un-armoured and overall PVC sheathed of type ST2 PVC compound flexible Confirming to IS: 1554 (Part - I) – 1988 (Flame Retardant (FR), Flame retardant Low Smoke (FRLS), to suit a variety of environment and fire risk condition). Type YY:			
a	3C x 2.5 Sqmm PVC Cu.- For Control		500	Mtr.
b	7C x 2.5 Sqmm PVC Cu.- For Control		1	Mtr.
c	12C x 2.5 Sqmm PVC Cu.- For Control		1	Mtr.
d	24C x 2.5 Sqmm PVC Cu.- For Control		80	Mtr.
C.2	TERMINATION KITS			
C.2.1	Supply & Installation of Single Compression Type Cable Glands, Cable Lugs, heat shrinkable sleeves on long ends, crimping paste etc. the work includes testing & commissioning of cables, meggering values & submitting reports of tests. One set includes termination of all cores of one end only.			
a	1C x 1000 Sqmm A2XFY		1	No's
b	3.5C x 300 Sqmm A2XFY		40	No's
c	3.5C x 240 Sqmm A2XFY		1	No's
d	3.5C x 185Sqmm A2XFY		6	No's

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
e	3.5C x 150Sqmm A2XFY		1	No's
f	3C x 150Sqmm A2XFY		1	No's
g	3.5C x 120 Sqmm A2XFY		6	No's
h	3C x 120 Sqmm A2XFY		1	No's
i	3.5C x 95 Sqmm A2XFY		1	No's
j	3C x 95 Sqmm A2XFY		1	No's
k	3.5C x 70 Sqmm A2XFY		24	No's
l	3C x 70 Sqmm A2XFY		1	No's
m	3.5C x 50 Sqmm A2XFY		1	No's
n	3C x 50 Sqmm A2XFY		1	No's
o	3.5C x 35 Sqmm A2XFY		30	No's
p	3C x 35 Sqmm A2XFY		1	No's
q	3.5C x 25 Sqmm A2XFY		1	No's
r	3C x 25 Sqmm A2XFY		1	No's
s	4C x 16 Sqmm A2XFY		1	No's
t	3C x 16 Sqmm A2XFY		1	No's
u	4C x 10 Sqmm 2XWY		80	No's
v	3C x 10 Sqmm 2XWY		1	No's

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
w	4C x 6 Sqmm 2XWY		40	No's
x	3C x 6 Sqmm 2XWY		1	No's
y	4C x 4 Sqmm 2XWY		48	No's
z	3C x 4 Sqmm 2XWY		1	No's
aa	4C x 2.5 Sqmm 2XWY		50	No's
ab	3C x 2.5 Sqmm 2XWY		1	No's
ac	4C x 1.5 Sqmm 2XWY		1	No's
ad	3C x 1.5 Sqmm 2XWY		1	No's
ae	3C x 2.5 Sqmm PVC Cu.- For Control		20	No's
af	7C x 2.5 Sqmm PVC Cu.- For Control		1	No's
ag	12C x 2.5 Sqmm PVC Cu.- For Control		1	No's
ah	24C x 2.5 Sqmm PVC Cu.- For Control		20	No's
C.2.3	Supplying & Laying of 11KV Grade (UE) XLPE Cable, Conductor of stranded Aluminium Wires, Conductor Screened by a layer of semi conducting compound cross linked polyethylene XLPE insulated (with latest technology of triple extrusion using single cross head extrusion technique and dry cure process), insulation screened by a layer of semi-conducting compound. Followed by a layer of Non magnetic copper tape, cores laid up, insulation thickness shall be minimum 3.6mm, hollow filter as required, taped PVC inner sheathed, Aluminium strip armoured for 1 core and galvanized steel strip armoured for 3 core. Overall extruded PVC (type ST2) outer sheath conforming to IS (IS : 8130 -1984) Standard of following :			
a	3C x 240Sqmm 11KV Earthed / Unearthed Al. Armoured XLPE cable		50	Mtr

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
C.2.4	Supply & Installation of Termination Kits Suitable for above Cables			
a	Indoor Type Kit		3	No's
b	Outdoor Type Kit		1	No's
	Annexure D			
D.	LIGHT FIXTURES			
	Supply, Installation, Testing & Commissioning of Lighting Fixtures. All fixtures should be complete with all accessories such as Lamps, Drivers, Heat Sink etc.			
D.1.1	Surface/ Slab Mounted Industrial Light fittings complete with all accessories, lamps, Driver, Heat Sink etc. including GI chain for hanging the fixtures wherever it is suspended type.			
a.	2x18W LED Fitting - Industrial Type- 1.5 mtr. Suspended Accessories/ Hanging Arrangement (Hanging Arrangement shall be in contractor scope).		1	No's
b.	2x18W LED Fitting - Industrial Type		1	No's
c.	1x18W LED Fitting - Industrial Type		100	No's
D.1.2	Surface Mounted Luminaire complete with all accessories, lamps, Driver, Heat Sink etc. suitable for following			
a.	60W LED Fitting		1	No's
b.	34W LED Fitting		1	No's
c.	18W LED Fitting		1	No's
d.	80W LED Medium Bay Fitting - False Ceiling/ Suspended		1	No's
e.	65W LED Low Bay Fitting - Suspended		1	No's

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
f.	165W LED Medium Bay Fitting - Surface Mounted/Suspended Type		1	No's
g.	18W LED Decorative Porch Light		1	No's
D.1.3	Square General Fixtures, Recess/ False Ceiling Mounted Bottom Opening Fixture, CRCA Powder Coated Frame & Cover, Polycarbonate Diffuser, Acrylic Cover, Complete with Driver, Heat Sink, Internal Wiring etc.			
a.	45W LED Fitting		67	No's
b.	36W LED Fitting		1	No's
c.	24W LED Fitting		115	No's
d.	36W LED Fitting (Decorative Fixture)		1	No's
D.1.4	Square Clean Room Fixture, Recess/ False Ceiling Mounted Bottom Opening Fixture, CRCA Powder Coated Frame & Cover, Polycarbonate Diffuser, Acrylic Cover, Complete with Driver, Heat Sink, Internal Wiring etc.			
a.	60W LED Fitting		1	No's
b.	45W LED Fitting		55	No's
c.	30W LED Fitting		1	No's
d.	24W LED Fitting		310	No's
e.	70W/ Equ. SV Lamp Stand Mounted		1	No's
f.	2x20W Flame Proof Fitting		10	No's
D.1.5	Square Clean Room Fixture, Panel Mounted Top Opening Fixture, CRCA Powder Coated Frame & Cover, Polycarbonate Diffuser, Complete with Driver, Heat Sink, Internal Wiring etc.			
a.	60W LED Fitting		1	No's

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
b.	42W LED Fitting		1	No's
c.	30W LED Fitting		1	No's
d.	18W LED Fitting		1	No's
e.	70W/ Equ. SV Lamp Stand Mounted		1	No's
f.	2x20W Flame Proof Fitting		1	No's
g.	2x30W Flame Proof Fitting		1	No's
D.1.7	Panel Mounted TOP opening cleanroom 45w Dual Color LED Fixture (45w White + 45w monochromatic yellow) suitable for classified area with housing and top cover manufactured with CRCA sheet, finished with powder coating with neccesary Non-Hygroscopic gasket with bottom side lighting grade high output efficiency diffuser with inside high efficiency LEDs mounted on MCPCB with high efficiency LED driver wired upto end terminal with Loop-In Loop-Out Connector with top side additional walkable top cover with neccesary Non-Hygroscopic gasket.(NON FLAMEPROOF)		50	No's
D.1.8	Panel Mounted TOP opening cleanroom 45w Dual Color LED Fixture (45w White + 45w monochromatic yellow) suitable for classified area with housing and top cover manufactured with CRCA sheet, finished with powder coating with neccesary Non-Hygroscopic gasket with bottom side lighting grade high output efficiency diffuser with inside high efficiency LEDs mounted on MCPCB with high efficiency LED driver wired upto end terminal with Loop-In Loop-Out Connector with top side additional walkable top cover with neccesary Non-Hygroscopic gasket.(FLAMEPROOF)		30	No's
D.2	STREET/ FLOOD / OTHER EXTERNAL LIGHTING			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
D.2.1	Supply, Installation, Testing & Commissioning of Hot Dip Galvanised Octagonal Street Light Pole of height 9.0mtr. (overall) with base plate of 260x260x16mm along with accessories like one 10A SPN MCB & 4 way 25A connector for R, Y, B & N phases Flexible cable from MCB to fixture shall be in contractor scope of supply. The scope include all associated civil work & providing pipe electrode (2000 mm Long) Earthing Coil for each pole and two nos. 8 SWG G.I. conductor shall be connected to the pole. Street light fixture.		30	Nos.
D.2.2	120W LED Fittings for Street Lighting		1	Nos.
D.2.3	90W LED Fittings for Street Lighting		30	Nos.
D.2.4	35W LED Fittings for Street Lighting (Cantiliver Support)		1	Nos.
D.2.5	150W LED Flood Fittings		1	Nos.
D.2.6	90W LED Flood Fittings		20	Nos.
D.2.7	10W LED Post Top Lanterns		6	Nos.
D.2.8	9W LED Bollards Lamps		40	Nos.
	Annexure E			
1E.	LIGHT /POWER WIRING (CONCEALED /EXPOSED)			
1E.1	POINT WIRING FOR LIGHTING			
	Wiring of light points/ Fan points / 6A socket outlets etc. using hard PVC Heavy duty conduit with all conduit accessories like heavy duty junction boxes, conduit bends, pull boxes, with covers etc. The work scope cover conduiting system on wall, trusses, in racks, or concealed piping including wall chiselling, laying of conduits during slab casting, installation of conduits in wall with GI staples/ saddles etc. included in scope of contractor.			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	All conduit accessories will be of threaded type & tools & consumables like hacksaw blades, threading dyes etc. to be arranged by contractor. Complete work has to be executed strictly as per drawing and specifications to ensure good aesthetics, line & level. The conduit shall be fixed in wall /slab at every 450 mm distance by saddles.			
1E1.1	Light point wiring using 2 Nos 1 sq.mm 1.1kv grade FRLS for phase and Nutral and 1 Nos 1 sq.mm for earthing including termination at both ends.			
a.	1 light fitting controlled by 1 No. 6A Switch (Approx. Length 8Mtr.)		280	No's
b.	2 light fittings controlled by 1 No. 6A Switch (Approx. Length 13Mtr.)		170	No's
c.	3 light fittings controlled by 1 No. 6A Switch (Approx. Length 18Mtr.)		40	No's
d.	4 light fittings controlled by 1 No. 6A Switch (Approx. Length 23Mtr.)		10	No's
e.	5 light fittings controlled by 1 No. 6A Switch (Approx. Length 28Mtr.)		4	No's
f.	6 light fittings controlled by 1 No. 6A Switch (Approx. Length 33Mtr.)		1	No's
g.	Electronic Fan Regulator (Step Type) (Approx. Length 8Mtr.)		1	No's
h.	2 Way Control Wiring (Approx. Length 15Mtr.)		25	No's
1E.2	CIRCUIT WIRING/MAINS WIRING (CONCEALED/EXPOSED)			
	Supply, Installation & Commissioning for Circuit Wiring from LDB to SB/PB, SB/PB to SB/PB & Power DB to Power socket outlets etc. using below mentioned Cu. Cable/ Wire. in Cable Tray / Race Way/ Hard PVC heavy duty conduits wherever as applicable with all accessories like, connectors, pull boxes, with covers etc.			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	The work scope cover work on wall, trusses, in racks, or concealed including wall chiselling in wall with GI staples/ saddles etc. included in scope of contractor. Tools & Consumables required for this installation shall be arranged by contractor. The conduit shall be provided with GI saddles at every 450mm distance. Complete work has to be executed strictly as per drawing & specifications to ensure work as per standard aesthetics. Line & Level.			
1E.2.1	2 Nos 2.5 sq.mm 1.1kv grade FRLS flexible wires for phase and nutral and 1 Nos 1.5 sq.mm wire for earthing including Termination at both ends. (For LDBs to SBs, DBs to Power Boards, Power Boards to Power Boards).		12000	Mtr
1E.2.2	2 Nos 4 sq.mm 1.1kv grade FRLS flexible wires for phase and nutral and 1 Nos 2.5 sq.mm wire for earthing including Termination at both ends. (DBs to Single Phase Industrial Socket, Industrial Socket to Socket).		600	Mtr
1E.2.3	4 Nos 6 sq.mm 1.1kv grade FRLS flexible wires for phase and nutral and 1 Nos 4 sq.mm wire for earthing Cable including Termination at both ends. (DBs to Three Phase Industrial Socket, Three Phase Industrial Socket to Socket).		1000	Mtr
1E.2.4	3C x 4 Sq.mm Cu.Arm FR Cable including Termination at both ends. (For LDBs to SBs, DBs to Power Boards, Power Boards to Power Boards, DBs to Single Phase Industrial Socket)_ Flame Proof.		500	Mtr
1E.2.5	5C x 6 Sq.mm Cu.Arm FR Cable including Termination at both ends. (DBs to Three Phase Industrial Socket, Three Phase Industrial Socket to Socket)_ Flame Proof.		500	Mtr
2E.	Lighting Switch Boards.			
	Supply, Installation,Testing & Commissioning of Switch Boards in Sheet Metal Housing and consisting of modular plate type ingredients e.g. Switches, plug sockets etc. as detailed in individual Switch Board drawing. The board may be concealed in wall or exposed mounted on wall, Concealed in CRP.			
2E.1	Switch Boards Consisting of 6A Switches/ 2 Way Switch/ Fan Regulator (As per Switch Boards Details drawing) and having Rear / Normal Top Cover plate as detailed below:-			
2E.1.1	1 No's 6A Switches in 1 Module Box		280	No's

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
2E.1.2	2 No's 6A Switches in 2 Module Box		170	No's
2E.1.3	4 No's 6A Switches in 4 Module Box		40	No's
2E.1.4	6 No's 6A Switches in 6 Module Box		10	No's
2E.1.5	8 No's 6A Switches in 8 Module Box		4	No's
2E.1.6	10 No's 6A Switches in 10 Module Box		1	No's
2E.1.7	12 No's 6A Switches in 12 Module Box		1	No's
2E.2	Switch Boards Consisting of 6A RotarySwitches (As per Switch Boards Details drawing) and having Rear / Normal Top Cover plate as detailed below:- (FLAMEPROOF)			
2E.2.1	1 No's 6A Switches in 1 Module Box		1	No's
2E.2.2	2 No's 6A Switches in 2 Module Box		1	No's
2E.2.3	4 No's 6A Switches in 4 Module Box		1	No's
3E.	Power ,Outlets And Accessories.			
	Supply, Installation, Testing and Commissioning of power outlet , Plug boards/ switch boards in sheet metal housing and consisting of components as details given in Power Layouts. The board shall consist of components of approved make and type with fixing in wall etc. as per drawing & specifications. The box shall be fixed at site by grouting in or fixing on walls.			
3E.1	Power Boards consisting of 1 No 5 pin 16A Power Socket with 1No. 16A Switch. Modular Boards with CRCA Box, rear plates & polycarbonate front plate/ Cover & all other required accessories.		450	No.'s
3E.2	PC Boards consisting of 3 No's 6A Power Socket with 1No. 16A Switch. Modular Boards with CRCA Box, rear plates & polycarbonate front plate/ Cover & all other required accessories.		50	No.'s

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
3E.3	1Ph Industrial Plug Boards consisting of 20A SPN RCBO & 20A SPN & E Industrial Socket & Plug. (With Normal Top Cover), Suitable for Flush Mounting at 80mm Panel.		15	No.'s
3E.4	3Ph Industrial Plug Boards consisting of 32A TPN RCBO & 32A TPN & E Industrial Socket & Plug. (With SS Plate & SS Door Plate) Suitable for Flush Mounting at 80mm Panel.		10	No.'s
3E.5	1Ph Flame proof Industrial Plug Boards consisting of 16A SPN& E Industrial Socket & Plug with inbuilt Rotary Switch. (With Double door Arrangement)		10	No.'s
3E.6	3Ph Flame Proof Industrial Plug boards consisting of 32A TPN & E Industrial Plug Socket with inbuilt Rotary Switch. (With Double door Arrangement)		10	No.'s
3E.7	Modular Type AC Push Button Starter (With Normal Top Cover)		1	No.'s
3E.8	Modular Type AC Push Button Starter (With SS Top Cover)		1	No.'s
	Annexure F			
F.	CABLE TRAY / CONDUTING / RACE WAY / SUPPORT			
F.1.1	Supply and Installation of Hot Dipped Galavanised Ladder Type Tray 2.5 mm thick Cable trays of following sizes.			
a	1000 x 100mm		1	Mtr
b	750 x 100mm		1	Mtr
c	600 x 100mm		100	Mtr
F.1.2	Supply and Installation of Hot Dipped Galavanised Perforated Type Tray 2.0 mm thick Cable trays of following sizes.			
a	600 x 75mm		1	Mtr
b	450 x 75mm		100	Mtr

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
c	300 x 50mm		800	Mtr
d	200 x 50mm		320	Mtr
e	150 x 25mm		560	Mtr
f	50 x 50mm		300	Mtr
F.1.3	Supply & Installation of Hard PVC Heavy Duty Conduit with accessories like heavy duty pull boxes with covers, GI saddles, bends, etc. in wall, ceiling etc. (If extra required)			
a	19mm Dia Conduit.		1	Mtr.
b	25mm Dia Conduit.		2500	Mtr.
c	32mm Dia Conduit.		1	Mtr.
d	40mm Dia Conduit.		1	Mtr.
F.1.4	Supply & Installation of following Type G.I. Floor Raceway			
a	225mm Width x 75mm Height in Three Compartment		1	Mtr.
b	225mm Width x 75mm Height in Two Compartment		1	Mtr.
c	100mm Width x 75mm Height in Single Compartment		1	Mtr.
d	50mm Width x 25mm Height in Single Compartment		1	Mtr.
F.1.5	Supply & Installation of following Type PVC Floor Raceway			
a	225mm Width x 25mm Height in Three Compartment		1	Mtr.
b	150mm Width x 25mm Height with Two Compartment		1	Mtr.

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
c	75mm Width x 25mm Height in Single Compartment		1	Mtr.
F.1.6	Supply & Installation of following Race Way Junction Box with Adjustable Height & Metal Cover			
a	150 x 150 x 65-90mm		1	Mtr.
b	225 x 225 x 65-90mm		1	Mtr.
F.1.7	Excavation in Soil as per drawing & specifications for preparing cable trenches in ground. The job includes spreading of sand & laying of bricks (to be supplied by client) as per drawing.		400	CUB.MTR
F.1.8	Fabrication /erection of cable tray supports/ Clamps from M.S. equal angle and strips as per drawing and specifications. Work also includes arranging consumables, grinding / filling of all welded joints, painting with one coat of anticorrosive paint & 2 coat of approved colour Synthetic enamel paint.		1200	Kgs.
F.1.9	Chipping of Cement hollo block wall , slab , beam (50 mm x 50 mm) etc. installation of pipes/cables and making good the surface as required. This item shall be applicable for concealed cabling.			
a.	Chasing of Cement / Brick Wall		1	Mtr.
b.	Chasing of RCC wall		1	Mtr.
	Annexure G			
G.	EARTHING			
G.1	EARTH STATIONS			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
G.1.1	Supply & Installation of Maintenance free Chemical earthing of Dual electrode base strip in technology. 3mtr. long with Outer dia. of 77-80mm dia of 80-120 micron galvanization and wall thickness of pipe. Insider Strip 50 *10mm, strip should be welded & connected at both end cap of pipe. Earthing electrode to be filled & compressed with the highly conductive non corrosive graphite based compound material with sealing at both end with lead terminals of 65X5 mm at top. Along with the 50Kg of earth enhancing compound (natural minerals like silica, Alumina, iron, calcium, carbon).. The Chemical compound should be tested and certified by BIS accredited laboratory. Ph value should be 7.5. The earth pits shall have a test ling for checking of earth values. This includes supply & fixing of watering pipe & strip 65X5 mm brought out up to ground level. [Earthong Should be tested for short circuit current rating of 40kA for 1 Sec. from approved laboratory. As per IS 3043.		22	Nos.
G.1.2	Supply & Installation of Maintenance free Chemical earthing of Dual electrode base strip in technology. 3mtr. long with Outer dia. of 77-80mm dia of 250 micron Copper bonded and wall thickness of pipe. Insider cu. bonded Strip 50 *10mm, strip should be welded & connected at both end cap of pipe. Earthing electrode to be filled & compressed with the highly conductive non corrosive graphite based compound material with sealing at both end with lead terminals of 50X10 mm at top. Along with the 50Kg of earth enhancing compound (natural minerals like silica, Alumina, iron, calcium, carbon). The Chemical compound should be tested and certified by BIS accredited laboratory. Ph value should be 7.5. The earth pits shall have a test ling for checking of earth values. This includes supply & fixing of watering pipe & strip 65X5 mm brought out up to ground level. [Earthong Should be tested for short circuit current rating of 40kA for 1 Sec. from approved laboratory. As per IS 3043.		10	Nos.
G.2	G.I Strip /Wire Earthing			
	Supply & laying of Hot Dipped G.I. (80 micron) earthing strip/wire.			
G.2.1	65 x 5 mm GI Strip (For Main Earthing Grid)		400	Mtr.
G.2.2	50 x 5 mm GI Strip (For Tapping, HT / Trafo Body/ 750& 600 Tray)		160	Mtr.
G.2.3	40 x 5mm GI Strip (For Tapping on Panel/ Equipment / 450 Tray)		400	Mtr.
G.2.4	25 x 6mm GI Strip (For Tapping on Panel/ Equipment / =<300 Tray)		2000	Mtr.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
G.2.5	8 SWG Bare GI Wire		150	Mtr.
G.2.6	10 SWG Bare GI. Wire		150	Mtr.
G.3	Supply & Laying of EC GRADE 'CU' Strip /Earthing Wire. Including fixing at equipment end (with Insulators & other required hard wares)			
G.3.1	50 x 5 mm Cu Strip (For Neutral / Electronic Earthing Grid)		60	Mtr.
G.3.2	40 x 5 mm Cu Strip		1	Mtr.
G.3.3	25 x 3mm Cu Strip (For Tapping of Neutral/Static/Electronic Earthing)		80	Mtr.
G.4	Supply and Installation of Earth Tag Box with 4 Nos. of Earthing Stud (10 mm dia and MOC SS 304). The Earthing Strip shall be housed in enclosure. The enclosure and front cover plate shall be made from SS 304. The whole assembly shall be concealed in such a way that the SS 304 front cover plate is properly aligned & flush with the SS 304 Box. The SS 304 Cover Plate and enclosure shall be matt finish. The errection rates shall include fixing of enclosures on surface of wall. Complete with 4.0 Sqmm Flexible wire 10.0 Mtr with both side crocodile clamp		1	Nos.
G.5	ELECTRONIC EARTHING			
G.5.1	Supply, Installation, Testing & Commissioning of 2Nos. 10 Sqmm copper insulated Flexible Wire in M.S.conduit from Earthing Grid to junction box for Electronic Earthing.		200	Mtr.
G.5.2	Supply, Installation, Testing & Commissioning of 2Nos. 4Sqmm PVC flexible copper wire from junction box to equipment's/ Machines.		800	Mtr.
G.5.3	Supply, Installation, Testing & Commissioning of 2Nos. 2.5Sqmm PVC flexible copper wire from junction box to equipment's.		800	Mtr.
GI.6	LIGHTENING CONDUCTOR INSTALLATION			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
G.6.1	Supply, Installation, testing and commissioning of Lightning Arrester, Controlled Early Streamer Emission Air terminal (ESEAT). ESEAT should be supported with independent third-party certification by the manufacturer certifying the compliance as required in the new test guidelines in Annex 'C' of revised NFC 17-102 version. 2011, latest ESE Lightning Protection Stds Early Streamer Emission technology, having a coverage radius of 60 Mtrs when mounted at a height of 4 Mtrs giving level 3 protection and anticipation emission time of 40 micro second. (Equivalent to INDELEC PREVECTRON 3® - S 40, Protection Radius 60 mtr, Level-3)		4	Mtr.
G.6.2	Supply and Installation of Arrester Mast made of GI with a dia of 35mm to 50mm with a thread at the top to fix the unit. Base plate, mounting bracket, clamps suitable for standing seam roof and all required fixing accessories should also be supplied. (4 Meter Self standing Pole)		4	Mtr.
G.6.3	Supply and Installation of a test clamp, should be installed in order to disconnect the down conductor from the earth termination for regular checks of the earth termination resistance value.		8	Mtr.
G.6.4	Supply, Installation, testing and Commissioning of 25 x 3 mm CU. Strip including conductor holder on metal sheets at every 1 meters.		400	Nos.
	Miscellaneous Item, Annexure H			
H	MISCELLANEOUS ITEMS			
H.1	Supply, Installation, Testing & Commissioning of Hand Dryers.		20	No's
H.2	Supply , Installation, Testing & Commissioning of Air Curtains. (MS Powder Coated)- Double Sensor (Suitable for 3mtr. Height)			
a.	Size -1800mm		1	No's
b.	Size -1500mm		20	No's
c.	Size -1200mm		1	No's

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
H.3	Supply, Installation, Testing & Commissioning of Insect Flyer		1	No's
H.4	Supply, Unloading, Shifting, Installation Testing & Commissioning of following UPS System with Battery with 30min backup, Battery Rack, Connection of Battery Leads etc. -			
H.4.1	100 kVA On Line UPS (3Ph In & Out)		1	Nos.
H.4.2	80 kVA On Line UPS (3Ph In & Out)		1	Nos.
H.4.3	60 kVA On Line UPS (3Ph In & Out)		2	Nos.
H.4.4	20kVA On Line UPS (3Ph In & Out)		1	Nos.
H.5	Supply & Fixing of LT 6mm Thick (2m x 1m) Rubber Mat for 433V		1	No's
H.6	Fan			
	Supply, Installation & Testing of following along with all required mounting accessories & hardware.			
H.6.1	48" dia Ceiling Fan		10	No's
H.6.2	9" dia Exhaust Fan With louver Facility		10	No's
H.6.3	18" dia Exhaust fan - Heavy Duty (3-Ph)		1	No's
H.6.4	Bracket Fan (Wall Mounted)		1	No's
	Annuxure I			
11	Attendance & Access Control System			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	This includes the scope of Supply, Transportation installation, testing & commissioning of LVS system as listed below. The main Server , Software with required all Passive Network system material , OFC Cable , Network switch at Distribution level shall be supplied by IT Contractor. Consumable items like GI cable tray and Accessories , Floor & Wall Raceway and accessories Conduits & conduits accessories a,Earthing material etc shall be supplied and installation by LVS contractor along with erection materials and hardware. The materials shall be unloaded from transport shifted to owner's store, if store is not ready so shifting to temporary store , resifted from owner's store/temporary store to place of erection, unpacking, site assembly of loosely furnished accessories, installation on foundation (civil work done by owner), proper alignment, levelling , tightening of hardware with required torque.			
	instruction of panel manufacturer, fixing of steel supporting channels , grip bolts , anchor bolts and all other accessories as require & minor civil works, touch up paint but not limited to but complete the work in all respect ready for operation & to the entire satisfaction of Engineer-In- charge.			
	Contractor has to arrange the material as per site requirement and Contractor has to take back balance material after project completion.			
11.1	Supply, Installation, Testing & Comissioning of Attendance Recording System with biometric. (For 500 users) Complete with Software. Prerefed Make- Honeywell/Siemens/Equiv. (Intregated With SAP)		4	Nos.
11.2	Supply, installation, Testing & Comissioning of Access Control System based on Bio metric System. Prerefed Make- Honeywell/Siemens/Equiv.		10	Nos.
21	Electromagnetic Door Interlocking System			
21.1	Non Flame Proof			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Supply, Installation, Testing, Commissioning & Validation of concealed type electromagnetic door interlocking system with wall panel flushed soft touch keyboard. The system should include a high dB buzzer and be able to indicate the room occupancy status. Emergency overriding of the door interlocking to be included and be able to interface with the main fire panel. All necessary components including A.C to D.C (12-24V) transformer, interconnecting flexible cabling between interlocks,raceways,controllers etc to be provided .Do refer to the technical specification in the tender.The interlocking system to be supported with a user programmable timer, display of the same to be in minutes and seconds. Prerefed Make- Honeywell/Siemens/Equiv. Note : 1.Each interlocked door to be provided with keyboard.on both sides of the room. 2.Top cover to be made of SS304 sheet smoothened to 240 grit and electro polished. 3.Privacy Logic Door interlock shall be provided with acknowledgement button on the exit side of room to disable door interlock			
2l.1.1	2-Door Interlocking system Normal		55	Sets
2l.1.2	3-Door Interlocking system Normal		5	Sets
2l.1.3	4-Door Interlocking system Normal		3	Sets
2l.1.4	5-Door Interlocking system Normal		1	Sets
2l.1.5	6-Door Interlocking system Normal		1	Sets
2l.1.6	7-Door Interlocking system Normal		1	Sets
	Flame Proof			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Supply,installation testing, commissioning & Validation of certified concealed type flame proof electromagnetic door interlocking system with wall panel flushed /mounted in a SS Box flame proof keypad and an integrated electro-magnetic interlocks .The electro magnets utilized should be flame proof and suitable for I (fire damp (methane), IIA (industrial methane, petrol),IIB (Ethylene, Coke oven gas) gas groups.The system should include a high dB buzzer and be able to inidicate the room occupancy status.Emergency overriding of the door interlocking to be included and be able to interface with the main fire panel.All necessary components including A.C to D.C(12-24V) transformer,interconnecting flexible cabling between interlocks,raceways,controllers etc to be provided. Prerefed Make- Honeywell/Siemens/Equiv. Note : 1.Each interlocked door to be provided with keypad on both sides of the room. 2.Certain civil or modular doors may be combined with High speed roll up door or rolling shutters. 3.Privacy Logic Door interlock shall be provided with acknowledgement button on the exit side of room to disable door interlock			
2I.2.1	2-Door Interlocking system Normal (Flame Proof)		5	Sets
3I	Computer Networking			
3I.1.1	Supply, Installation & Testing of LAN Point - RJ-45 Board. Modular Boards with CRCA Box, rear plates & polycarbonate front plate/ Cover & all other required accessories.		60	No.'s
3I.2	Supply & Laying of CAT-6 cable for Networking and interconnection of various LAN points with Networking Switch (Including incoming cable from Server Room). All Data wiring shall be carried out using Cat 6 Cable in heavy duty PVC conduit or Wall/Floor Race way (Separate Paid Items in Electrification BOQ). The Scope also include Puchning at both the end of Cat6 cable. Colour code for Data cable – Blue color. Contractor has to calculate actual requirment of Cable for Data, Redundant and other accessories and accordingly arrange the cable.		1800	Mtr.
3I.3.1	2 Mtr. CAT-6 Patch Cord between CPU/Laptop and Network outlets. (Supply & Connection)		5	Nos.

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
3l.3.2	1 Mtr. CAT-6 Patch cord between Patch Panel and Network switch for Data (Supply & Connection)		60	Nos.
3l.4	Managed Ethernet Switch:			
3l.4.1	Supply, Installation of - Managed Ethernet switch: 48 port RJ45 10 base 1000T (with POE Module).		1	Nos.
3l.4.2	Supply, Installation of - Managed Ethernet switch: 24 port RJ45 10 base 1000T (with POE Module).		1	Nos.
3l.5	Patch Panel (UNLOADED) :			
	Supply & Installation of follwoing Patch Panel with integrated cable tie shelf, 19" fastening kit, labeling field, accepting the snap-in type color coding clips in 8 colors. Material: sub-rack made of sheet steel (DC01A) 1.5 mm, color blue chromatized, screen made of plastic (ABS), halogen-free, color medium gray (NCS 2502-B). Information Outlet or connectin module should comply with the specification mentioned above Mounting dimensions 14.9 x 19.5 mm, max. material thickness 1.6 mm.			
a.	48 Port Patch Panel		1	Nos.
b.	24 Port Patch Panel		1	Nos.
3l.6	Network Rack :			
3l.6.1	Supply & Installation of Floor Mounting type 42U (800mm * 800mm) with Glass door, 2U standard rack mount power distribution unit with 6 Nos. X 5 Amp 5 Pin 230 Volts AC, Inlet Plug type 6A Indian Round Pin-PDU Rating 8A- 2Sets , Cantilever shelf/ type2/ 1U , Horizontal Cable Manager /1U/Loop , Fan as per required CFM, Also all required mounting Hardware		1	Nos.
3l.6.2	Supply & Installation of Floor Mounting type 24U (800mm * 600mm) with Glass door, 2U standard rack mount power distribution unit with 6 Nos. X 5 Amp 5 Pin 230 Volts AC, Inlet Plug type 6A Indian Round Pin-PDU Rating 8A- 2Sets , Cantilever shelf/ type2/ 1U , Horizontal Cable Manager /1U/Loop , Fan as per required CFM, Also all required mounting Hardware		1	Nos.

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
3l.6.3	Supply & Instllation of 24 Port LIU fulley loaded with LC Coupler , plate pigtel , spicing kits & Fiber (OFC) LC ptach cords- 2Mtr. SM Pigtel, SM LC to LC Patch Cord 2 Mtrs and Cat-6 Ptach cords ect. Also all required mounting Hardware.		1	Nos.
4l	Telephone System			
4l.1.1	Supply, Installation, testing of Telephone Point - RJ45 Board. Modular Boards with CRCA Box, rear plates & polycarbonate front plate/ Cover & all other required accessories.		20	No.'s
4l.2	Supply, laying and connection CAT-6 Cable for interconnection of various Telephones. All Telephone wiring shall be carried out using Cat 6 Cable in heavy duty PVC conduit/ Floor Race Way (Separate Paid Items in Electrification BOQ).The Scope also include Puchning at both the end of Cat 6 Cable.Colour code for Tele cables –Yellow color. Contractor has to calculate actual requirment of Cable for Telephone, Redundant and other accessories and accordingly arrange the cable.		600	Mtr.
4l.3.1	Supply, Installation, Testing & Commissioning of IP EPABX Input Line as per requirement. (Provide Catlounge & Model)		1	Nos
4l.4.1	Supply, laying and connection of 20 Pair Multi core Armoured Jelly Filled Telephone cable.		1	Mtr.
4l.4.2	Supply, laying and connection of 10 Pair Multi core Armoured Jelly Filled Telephone cable.		1	Mtr.
4l.5	Supply and Instllation of 10 Pair Krone Box		1	Nos
4l.6	Supply and installation of Table Top Analog Telephone Instruments		13	Nos
4l.7	Supply and installation of Table Top Digital Display Telephone Instruments (Security & Reception)		2	Nos
5l	CCTV System			

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
5l.1	Supply & Laying of CAT-6 cable for Networking and interconnection of various CCTV points with Networking Switch (Including incoming cable from Server Room). All Data wiring shall be carried out using Cat 6 Cable in heavy duty PVC conduit or Wall/Floor Race way (Separate Paid Items in Electrification BOQ). The Scope also include Puchning at both the end of Cat6 cable. Colour code for Data cable – Blue color. Contractor has to calculate actual requirment of Cable for CCTV, Redundant and other accessories and accordingly arrange the cable.		1500	Mtr.
5l.2.1	Supply and installation of IP based Fixed dome with discreet and tamper-resistant casing. Varifocal 2.8-10 mm lens with fixed iris. Multiple, individually configurable H.264 and Motion JPEG streams; max HDTV 720p . Video motion detection and active tampering alarm. Power over Ethernet. Midspan not included. Prerefed Make- Honeywell/Axis/Equiv.		25	Nos.
5l.2.2	Supply and installation of IP based Fixed Bullet with discreet and tamper-resistant casing. Varifocal 2.8-10 mm lens with fixed iris. Multiple, individually configurable H.264 and Motion JPEG streams; max HDTV 720p . Video motion detection and active tampering alarm. Power over Ethernet. Midspan not included. Suitable for outdoor installation. Preferred Make- Bosch/ Honeywell/ Axis		25	Nos.
5l.3	Supply, Installation, Testing and Commissioning of NVR which shall include the required hardware for 55 No's Cameras (Expandable) and software as per the system requirement. Preferred Make- Honeywell/ Axis/ Bosch		1	Nos.
5l.4	Supply, Installation, Testing & Commissioning of 40" LED Flat Color Monitors. Preferred Make- Samsung/ LG/ Sony		1	No.
6l	Public Address System			
6l.1.1	Supply, installation Testing & Comissioning of Public Address System complete with Amplifier, Mike , 6 Watt Speakers, JBs, Repeater and other necessary items.Prerefed Make- Bosch/Equiv.		4	Lot
6l.1.2	Supply, installation Testing & Comissioning of 6 Watt Superb Quality Ceiling Speaker Prerefed Make- Honeywell/Bosch/Equiv.		30	Nos

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
6l.1.3	Supply, installation Testing & Comissioning of 10 Watt Superb Quality Box Speaker Prerefed Make-Honeywell/Bosch/Equiv.		30	Nos
6l.2	Supply, Installation, Testing & Commissioning of 2 x 1 Sq. mm copper flat speaker cable to be laid in 25 mm dia hard PVC heavy duty conduits. Interconnection of the system to various Speakers shall be a part of the scope of work.		1000	Mtr.
	Annexure J			
	INTELIIGENT ADDRESSABLE FIRE DETECTION SYSTEM			
	FIRE DETECTION AND ALARM SYSTEM - ANALOG ADDRESSABLE			
	Design, Supply, Installation, testing & commissioning of Fire Detection & Alarm system as per local fire norms & UL, NBC / NFPA Codes:			
J1	Fire Alarm Control Panel			
	Supply, installting, testing and commissioning of 8 Loop panel with 4 loop card (each loop consist of 251 detector or devices or combination) Microprocessor based intelligent and electronically addressable, modular, expandable, networkable, loops with 20% spare capacity with each loop shall have a capacity of 318 analog addressable devices in one loop Fire Alarm Control Panel with minimum 6 inch / 640 character LCD display, multiple access levels, event history file in non-volatile memory (EEPROM). The panel shall support programmable relays for controlling lifts, staircase pressurizations fans, lift shaft and lift lobby pressurization fans, AHU's, ventilation fans, fire pump, monitoring of fire sprinkler and fire hydrant pump controlled by powerful Boolean logic equation. The panel shall have inbuilt Qwerty keypad for field programming and shall have the capability to record 4000 event logs , it shall have 240 volts AC power supply, automatic battery charger, 24 volts, sealed lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 60 minutes during emergency condition.Can be integrated with BMS installed on Site. The panel shall be UL listed 9th Edition Approved Makes : Notifier, Jonson Control, Bosch UL		1	Nos.
J2	Loop Card sutable for 251 detctor & 251 Devices		1	Nos

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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
J3	Repeater Panel (Active) with 6 inch or 640-characters; The LCD shall Display all events / detectors, devices status of complete systems in the networked, The NRP shall be equipped with QWERTY Keypad. Mounting options include an annunciator box, and blank modules are required for mounting. Approved Makes: Notifier, Jonson Control, Bosch UL		1	Nos.
J4	CO (Carbon monoxide) Detector			
a.	Supply, installing, testing and commissioning of UL listed addressable Intelligent addressable combination photo and carbon monoxide detection with mounting base and rotary switch for address from 1-159, dual LED, complete with base as required. Approved Makes : Notifier, Jonson Control, Bosch UL.		1	Nos.
J5	Photothermal (Multitech) Detector			
	Supply, installing, testing and commissioning of UL listed addressable intelligent Photothermal (Multitech) detector with floating sensitivity (Acclimate type) with mounting base and rotary switch for address from 1-159, dual LED, complete with base as required. Approved make: Notifier, Jonson Control, Bosch UL.			
a.	Below False Ceiling		220	Nos.
b.	Above False Ceiling		1	Nos.
c.	Flame proof		15	Nos.
J6	Heat Detector			
a.	Supply, installing, testing and commissioning of UL listed addressable intelligent rate of rise cum fixed temperature thermistor type resettable Heat detector with mounting base and rotary switch for address from 1-159, dual LED, complete with base as required. Approved Makes : Notifier, Jonson Control, Bosch UL		1	Nos.
J7	Smoke Detector			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
a.	Supply, installing, testing and commissioning of UL listed addressable intelligent smoke detector with mounting base and rotary switch for address from 1-159, dual LED, complete with base as required. Approved Makes : Notifier, Jonson Control, Bosch UL.		1	Nos.
J8	Beam Detector			
a.	Supply, installing, testing and commissioning of UL listed addressable Beam Detector detector with mounting base and rotary switch for address from 1-159, dual LED, complete with base as required. Approved Makes : Notifier, Jonson Control, Bosch UL.		1	Sets
J9	Duct Detectors			
a.	Supply and installation of optical type duct detectors same as item above but inside a air sampling chamber to be located inside the AC return air duct including supply of all fixing materials		1	Nos.
b.	Supply and installation of Flame Proof Intrinsically safe Duct detectors same as item above but inside a air sampling chamber to be located inside the AC return air duct including supply of all fixing materials		1	Nos.
J10	Fault Isolator			
a.	Supply, installing, testing and commissioning of addressable type Fault Isolators for isolating shorted, de wired and loose circuits between two successive fault isolators with automatic resetting. Arrangement. Makes : Notifier, Jonson Control, Bosch UL		22	Nos.
J11	Monitor Modules			
a.	Supply, Installation, testing and commissioning of Addressable Monitor modules for : Sprinkler flow switches. Approved make: Makes : Notifier, Jonson Control, Bosch UL		1	Nos.
J12	Control Modules			
	Supply, installing, testing and commissioning of addressable and automatic commandable control modules for: Approved make: Notifier, Jonson Control, Bosch UL			

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NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
i	Fireman's Telephone jack circuits		1	Nos.
ii	Access Control / Door Interlock Integration		1	Nos.
iii	Hooters cum Strobe Circuit		15	Nos.
iv	Directional Sounder		1	Nos.
v	AHU / DDC Integration		1	Nos.
J13	Response Indicator			
a.	Supply, installation, testing and commissioning of Response Indicator cum lamp assembly mounted on walls /partitions, surface /recessed etc. in dust tight enclosure, including chase cutting complete as required. (Any Local Make Apporoved by Engineer in Charge At Site) Approved make: Notifier, Jonson Control, Bosch UL		1	Nos.
J14	Manual Call Point			
a.	Supply, installing, testing & commissioning of addressable Glass break Manual call point. Approved Makes : Notifier, Jonson Control, Bosch UL		20	Nos.
J15	Strobes Cum Dual Tone Hooters			
a.	Supply, installation, testing and commissioning of Strobes cum Dual tone hooters with minimum of 110cd and 93 db complete as required. Approved Makes : Notifier, Jonson Control, Bosch UL.		20	Nos.
J16	Exit Sign Boards			
a.	Supplying, installation, testing and commissioning of Emergency Escape Sign Board- LED exit sign boards - Low operating cost with high lamp life, consumption less than 5w having facility with flashing in Emergency mode, (Battery operated)		10	Nos.
J17	SITC, of 2C x 1.5 Sq.mm twisted pair copper cable.		2000	Mtrs

NAME OF WORK

ETP PLANT

Item Rate BoQ				
Tender Inviting Authority: FM , Gluconate Health Limited				
Name of Work: ETP PLANT				
Contract No: NIT/PT-21/26-27				
Name of the Bid der/ Bid ding Fir m / Com pany :				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	2	3	4	5
1	ETP CAPACITY - 20 KLD		1	Nos
2	ETP SHALL BE PACKAGED UNIT			
3	All Tanks shall Carbon Steel tanks with required anto corrosive inetrnal coating and external painting			
4	The ETP shall be design on MBR/MBBR or input parameters			
	Bar Screen			
	Supply & fixing of SS bar Screen of required size			
	Raw Effluent Transfer Pump			
	Supply, Installing, testing & Commissioning of Raw effluent transfer Pump, Capacity 1 Cum/hr @10M head (1Working + 1 Stand-by)			
	Treated Effluent Transfer Pump			
	Supply, Installing , tetsing & Commissioning of Treated effluent transfer Pump, Capacity 1 Cum/hr @10M head (1Working + 1 Stand-by)			
	Air Blowers			
	Supply, Installing, testing & commssioning of Air Blowers with Acoustic Enclosure of capacity 60 m3/hr. @ 0.45 kg/cm2. (1 Working + 1 Stand-by)			
	Sludge Transfer Pumps			
	Supply, Installing , tetsing & Commissioning of Sludge transfer Pump, Capacity 1 Cum/hr @10M head (1Working + 1 Stand-by)			
	Filter Feed Pumps			

Item Rate BoQ				
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Contract No: NIT/PT-21/26-27				
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NUMBE R #	TEXT #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units
	Supply, Installing , tetsing & Commissioning of Filter Feed Pump, Capacity 1 Cum/hr @35M head (1Working + 1 Stand-by)			
	Pressure Sand Filter			
	Supply, Installing , tetsing & Commissioning of Pressure Sand Filter, Flow Rate 1 Cum/hr with necessary frontal piping valves etc complete.,			
	Activated Carbon Filter			
	Supply, Installing , tetsing & Commissioning of Activated Carbon Filter, Flow Rate 1 Cum/hr with necessary frontal piping valves etc complete.,			
	Dosing System			
	Supply, Installing , tetsing & Commissioning of Dosing with flow rate of 10 cum/day, Hypo Dosing Pump 0-6 LPH, Hypo Dosing Tank of Capacity 100 Litres etc complete.,			
	Electrical Panel			
	Supply, Installing , tetsing & Commissioning of Non Compartmental type MCC Control Panel with cabling			
	Electrical Panel			
	Supply, Installing , tetsing & Commissioning of Interconnecting piping uPVC Sch80 pipes and fittings with necessary valves and fittings etc complete as required for complete working of ETP plant to the satishfaction of Engineer-in-Charge.			