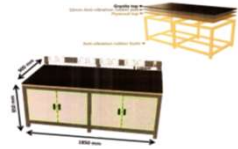
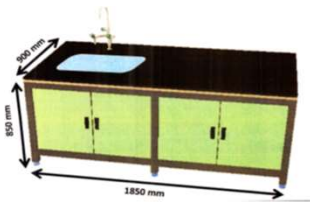
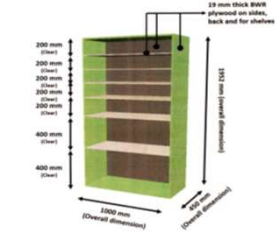


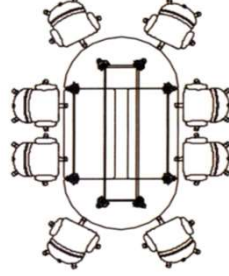
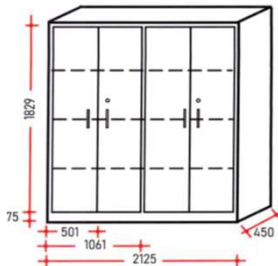
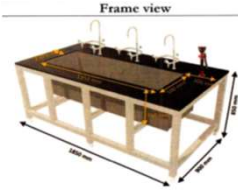
The West Bengal Small Industries Development Corporation Ltd.

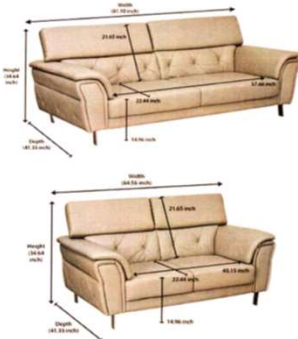
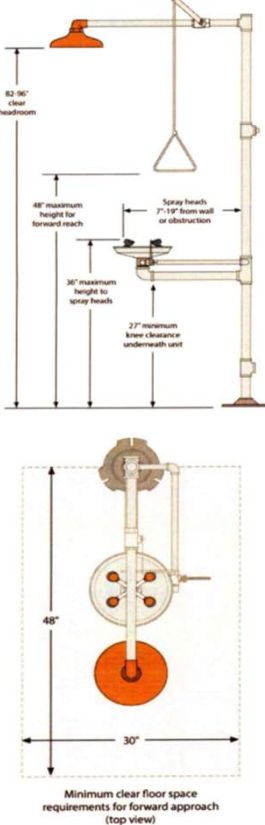
CLC, Bantala
CLRI Laboratory setup

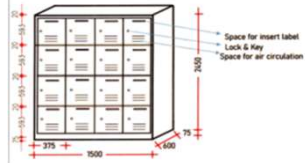
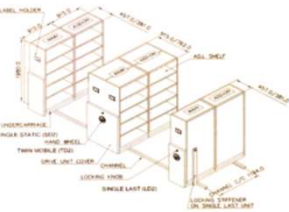
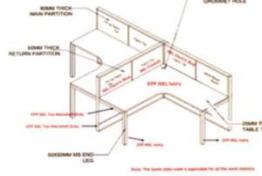
<u>Sl. No</u>	<u>Particulars</u>	<u>Total</u>
1	Furniture Work / Aluminium partition work	₹ 1,99,81,607.00
2	Electrical Work (6,49,948.00+1,28,58,855)	₹ 1,35,08,803.00
3	Pipe Line work for water supply	₹ 2,28,564.00
4	Gas Line work	₹ 16,23,040.00
Grand Total		₹ 3,53,42,014.00

CLC

Sl No	Item Name	Item Details	Unit	Size (WXDXH)	Qty	Product Code	Rate/Unit	Amount	Tentative Image	REMARKS
1	Annex 1	Mechanized factory made Laboratory Working Table with first quality well treated Mahogany wood of size 1850mm(Length)x900mm(Breadth)x850mm(Height)	Pcs	1850X900X850	62		₹ 1,18,000.00	₹ 73,16,000.00		
2	Annex 2	Mechanized factory made Laboratory Working Table (with footrest) with first quality well treated Mahogany wood of size 1850mm (Length) x 900mm (Breadth) x 850mm (Height)	Pcs	1850X900X850	28		₹ 93,000.00	₹ 26,04,000.00		
3	Annex 3	Mechanized factory made Laboratory Working Table (with footrest) with first quality well treated Mahogany wood of size 1850mm (Length) x 900mm (Breadth) x 850mm (Height)	Pcs	1850X900X850	2		₹ 63,000.00	₹ 1,26,000.00		
4	Annex 4	Mechanized factory made sink working table with 3 way tap of first quality well treated Mahogany wood of size 1850mm (Length) x 900mm (Breadth) x 850mm (Height)	Pcs	1850x900x850	4		₹ 1,20,000.00	₹ 4,80,000.00		
5	Annex 5	Mechanized factory made Sample Rack (without door) with 19mm thick BWR plywood of reputed Make: Century / Green or equivalent of size 1000mm (Length) x 450mm (Breadth) x 1950mm (Height) QTY. -(5 NOS.)	Sqft	1000X450X1950	110.5	WFG-363	₹ 1,848.00	₹ 2,04,204.00		
6	Annex 6	Rectangular Tea Table for Front office	Pcs	STANDARD	1	WFG-171	₹ 12,000.00	₹ 12,000.00		
7	Annex 7	Rectangular Tea Table for Front office	Pcs	STANDARD	1	WFG-171	₹ 12,000.00	₹ 12,000.00		

Sl No	Item Name	Item Details	Unit	Size (WxDXH)	Qty	Product Code	Rate/Unit	Amount	Tentative Image	REMARKS
20	Annex 20	8-seater meeting table with executive chairs (8 Nos)	Pcs		8	WFG-282	₹ 8,250.00	₹ 66,000.00		
21	Annex 21	Mid-back executive chair	Pcs		20	WFG-282	₹ 8,250.00	₹ 1,65,000.00		
22	Annex 22	Executive ergonomic higher-back task chairs	Pcs		10	WFG-177	₹ 9,500.00	₹ 95,000.00		
23	Annex 23	Document storage Unit QTY.- 6 NOS.	Sqft	2150X450X1850	270	WFG-363	₹ 1,848.00	₹ 4,98,960.00		
24	Annex 24	Laboratory Sink Table	Pcs	1850X900X850	2		₹ 1,80,000.00	₹ 3,60,000.00	 3D Model (Proposed model)  Frame view	

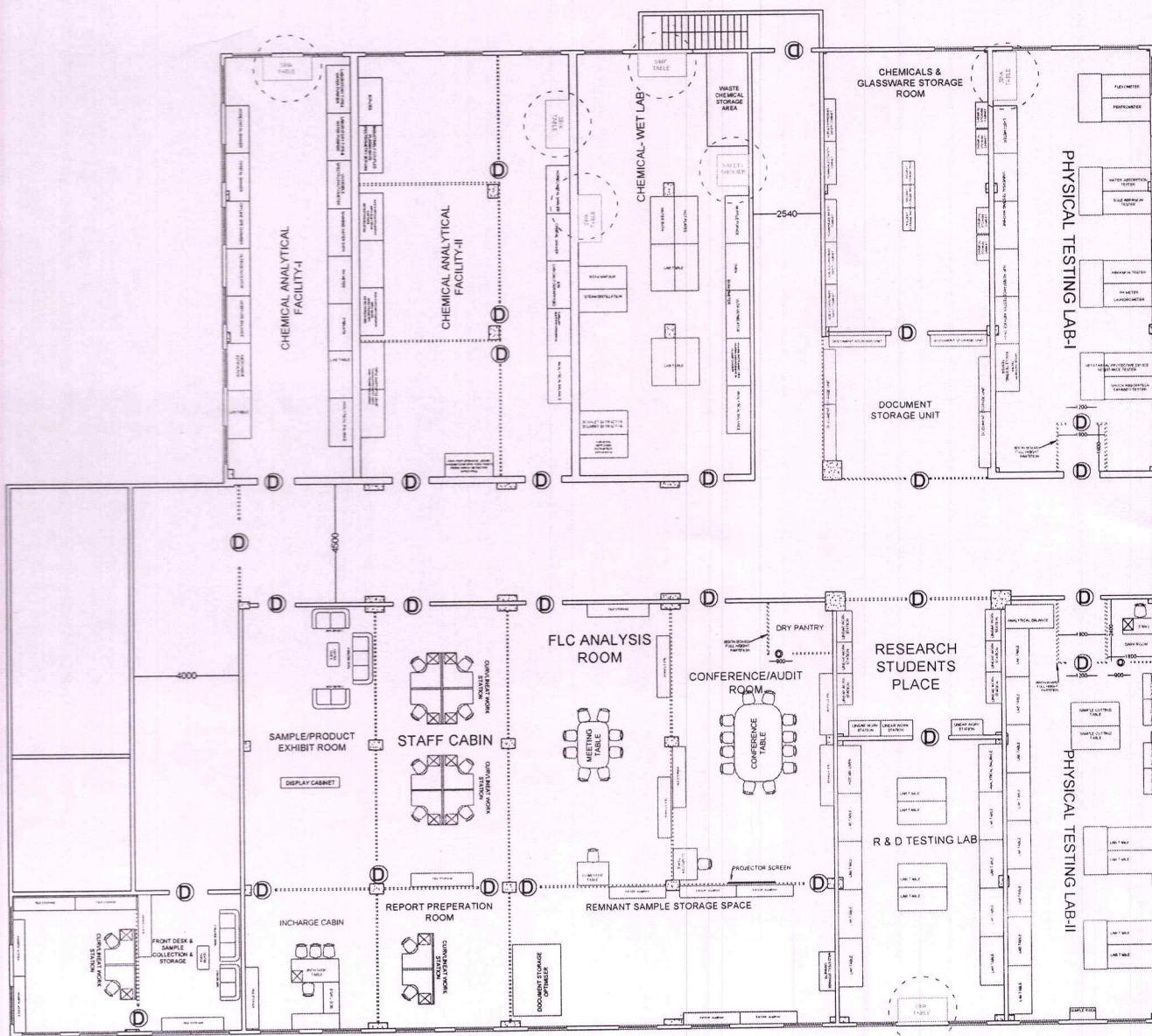
Sl No	Item Name	Item Details	Unit	Size (WDXH)	Qty	Product Code	Rate/Unit	Amount	Tentative Image	REMARKS
25	Annex 25	Acids & Corrosives Safety Cabinet QTY.-3 NOS.	Sqft	1650X450X1050	57.75	WFG-381	₹ 2,145.00	₹ 1,23,873.75		
26	Annex 26	Solvent storage racks QTY.- 3 NOS.	Pcs	900X450X2150	3		₹ 55,000.00	₹ 1,65,000.00		
27	Annex 27	Sofa set for Front office (3 seater + 2 seater)	Set		1	WFG-327(A)	₹ 77,557.00	₹ 77,557.00		
28	Annex 28	Emergency Safety Shower	Pcs		1		₹ 45,000.00	₹ 45,000.00		

Sl No	Item Name	Item Details	Unit	Size (WXDXH)	Qty	Product Code	Rate/Unit	Amount	Tentative Image	REMARKS
29	Annex 29	Mild steel storage cabinets QTY.- 1 NOS.	Sqft	1500X600X2450	40	WFG-363	₹ 1,848.00	₹ 73,920.00		
30	Annex 30	Flammables Safety Cabinet QTY.- 2 NOS.	Pcs	1650X450X1050	2		₹ 50,000.00	₹ 1,00,000.00		
31	Annex 31	Document storage Optimiser	Pcs		1	SFG-015	₹ 3,40,000.00	₹ 3,40,000.00		
32	Annex 32	2-cluster work station	Seat		4	WFG-349	₹ 38,500.00	₹ 1,54,000.00		
			Pcs		4	ANX-001	₹ 8,250.00	₹ 33,000.00		
33		TABLE	PCS	1200X600X750	1	WFG-186	23816	₹ 23,816.00		
34		CHAIR	PCS	STANDARD	1	WFG-206	6000	₹ 6,000.00		
35		FULL HEIGHT PARTITION WITH BISON CEMENT BOARD	Sqft	STANDARD	535	WFG-220	₹ 748.00	₹ 4,00,180.00		
35		PUTTY	Sqft	STANDARD	1070	WFG-331	₹ 25.30	₹ 27,071.00		
		PAINT	Sqft	STANDARD	1070	WFG-331	₹ 25.30	₹ 27,071.00		
36		FLASH DOOR	PCS	1200X2100	2	WFG-263	₹ 51,150.00	₹ 1,02,300.00		
37		FLASH DOOR	PCS	900X2100	2	WFG-262	₹ 20,350.00	₹ 40,700.00		
38		Lab stool solid wood	Pcs		20	FRW-68	₹ 3,410.00	₹ 68,200.00		
Basic Amount								₹ 1,64,40,354.75		
Add: Delivery @3%								₹ 4,93,210.64		
Add: GST @18%								₹ 30,48,041.77		
Total Amount								₹ 1,99,81,607.16		

NOTE:- Square Feet =(Width x Height)
1 feet = 304.8 mm



CLC-KOLKATA
GROUND FLOOR

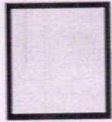


CLC-KOLKATA FIRST FLOOR

FLOOR MAP/PLAN

Ground Floor

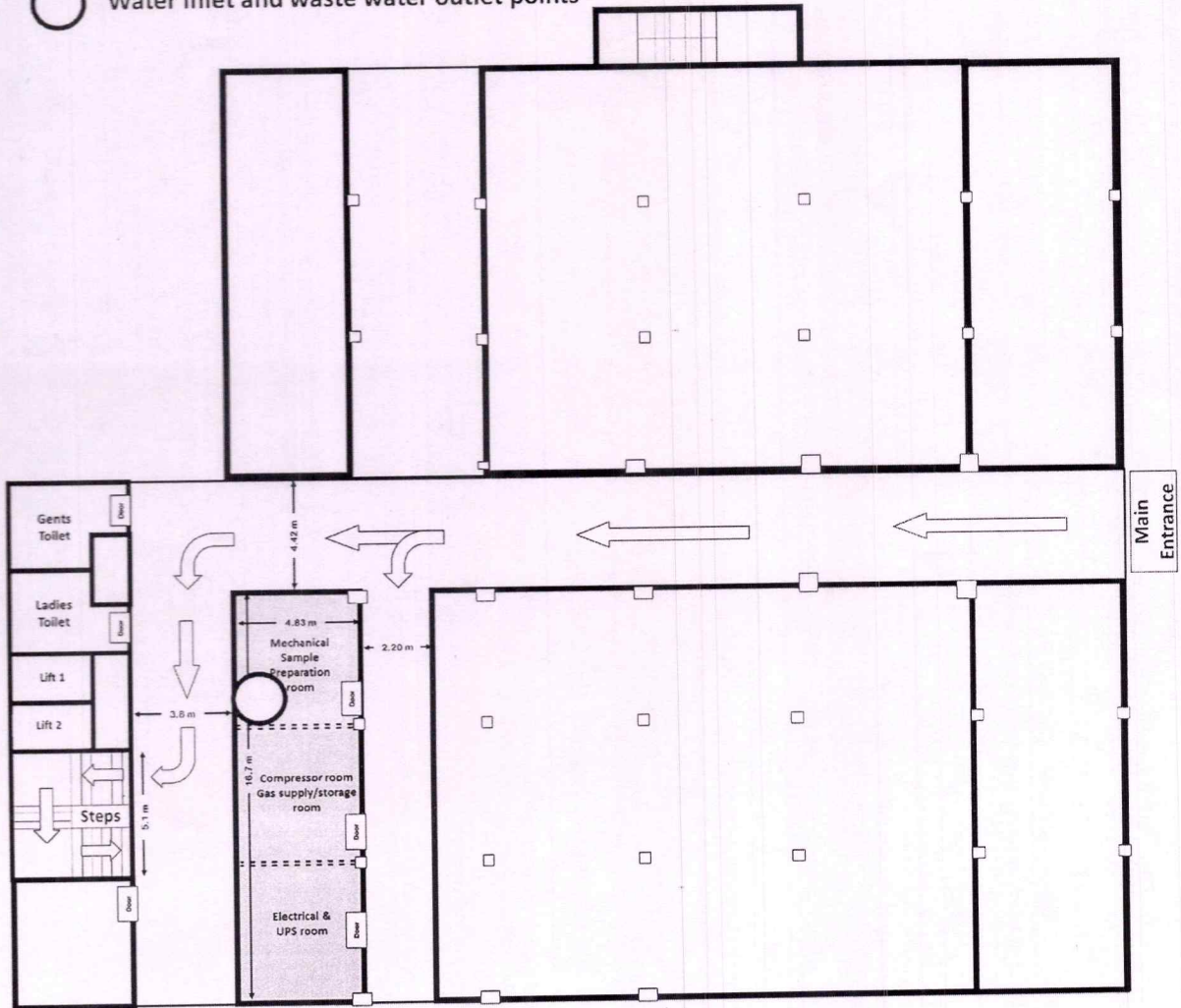
----- Proposed Partition



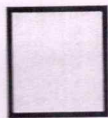
Proposed False Ceiling work



Water inlet and waste water outlet points



Proposed Partition



Proposed False Ceiling work



Water inlet and waste water outlet points

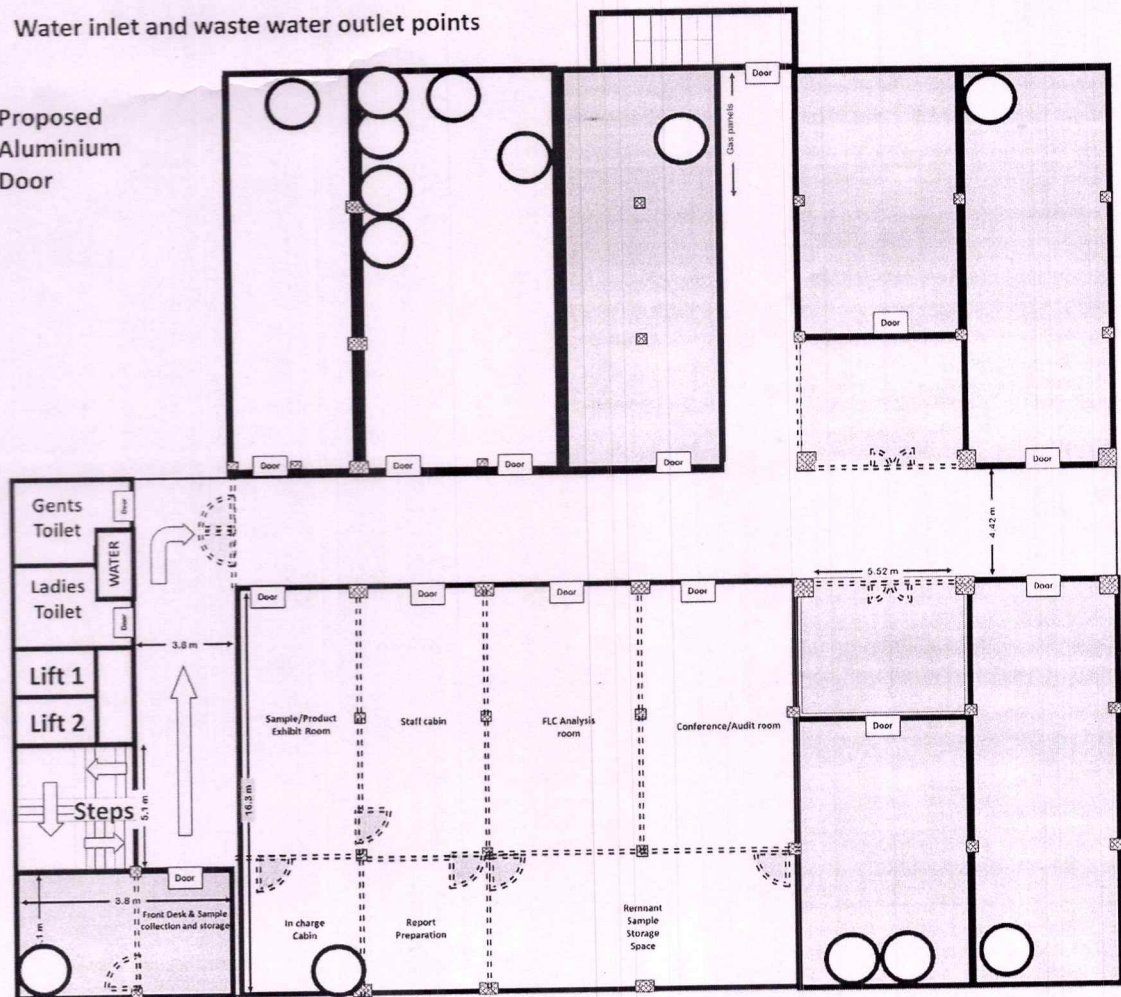


Proposed Aluminium Door

First Floor



Bison Panel on all existing Windows of the first floor



Estimate

Electrical Installation including supply & installation of split A.C machines at CLC, Bantala

Sl. No.	Description of items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)	
1	Supply & Fixing 240 V, 16 A, 3 pin Modular type plug socket (Brand approved by EIC) with 16A Modular type switch, without plug top on 4 Module GI Modular type switch board with top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	450	Each	456.00	205200.00	PWD/E18/9/ b
2	Supplying and fixing 2 way MCB SS enclosure with IP-20/30 protection, powder coated provision for four pole MCB, concealed in wall after cutting the wall & mending good the damages to original finish incl. painting, connection & provision for earthing attachment	120	Each	270.00	32400.00	PWD/D9/ 11
3	Supplying and fixing 32A, 240V DP MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	120	Each	546.00	65520.00	PWD/D6/7
4	Supply & Fixing 240 V, 4 nos. 6 A, 3 pin Modular type plug socket with 4 nos. 6A Modular type switch (Brand approved by EIC), 16A Modular switch type MCB (C-Curve) and Indicator without plug top on 2 row 18 Module GI Modular type switch board with 2 row 18 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	25	Each	1691.00	42275.00	PWD/E18/ 12
5	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Modular type switch (Brand approved by EIC) fixed on Modular GI switch board with top cover plate and 2 no. suitable size "Ph & N" copper bar & earthing attachment fixed on wall incl. mending good damages to original finish: Average run 10 mtr	370	Point	1140.00	421800.00	PWD/E24/1
6	Supply & fixing of 36W fully diffused recessed mounted 2' X 2' false ceiling based LED light including connection by 1.5 sq.mm cu wire. (Make: Philips /Panasonic/Bajaj)	210	Each	5309.00	1114890.00	irrigation Analysis Schedule P-110/5/3 f1
7	Supply of 1200 mm approved make high speed ceiling fan (ISI marked) of 1200 mm size having double ball bearing complete with standard down rod, canopy, hanging shackle, aluminium blades, suitable for AC 230-250 volt supply.	60	Each	2297.00	137820.00	Analysis irrigation Sch. P-115/5/3 cel
8	Supplying of 450 mm sweep approved make wall fan oscillating type with base, blades, guard, speed regulator etc suitable for AC 230-250 volt supply.	60	Each	4402.00	264120.00	Analysis irrigation Sch. P-115/5/3 G.A.1
9	Supply of 300 mm sweep RPM 1400 approved make exhaust fan heavy duty with mounting frame, blades suitable for AC 230-250 volt supply.	4	Each	2416.00	9664.00	Analysis irrigation Sch. P-115/5/3 G.A.1
10	Supply & Fixing Al louver shutter suitable for 300 mm dia exhaust fan on wall with necy. bolts & nuts (6 mm dia x 62 mm long)	4	Each	193.00	772.00	PWD/D14/ 32

11	Supplying and fixing 8 way double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. (Make: Legrand/ L&T/ Seimens)	24	Each	4194.00	100656.00	PWD/D10/14
12	Supplying and fixing 100A, 415V FP MCB Isolator on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	24	Each	927.00	22248.00	PWD/D5/6
13	Supplying and fixing 6-32A (as per req. of electrical load), 240V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	576	Each	190.00	109440.00	PWD/D6/7
14	Supplying and fixing 2+16 way double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. (Make: Legrand/ L&T/ Seimens)	13	Each	2200.00	28600.00	PWD/D9/13
15	Supplying and fixing 40A, 240V DP MCB Isolator on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	13	Each	349.00	4537.00	PWD/D5/6
16	Supplying and fixing 6-12A (as per req. of electrical load), 240V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	104	Each	190.00	19760.00	PWD/D6/7
17	Wiring for circuit wiring alongwith earth wire with the following size of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required: 2 X 4 sq.mm + 1 X 4 sq.mm earth wire.	4000	Mtr.	334.00	1336000.00	DSR/E&M/3/1.14
18	Wiring for circuit wiring alongwith earth wire with the following size of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required: 4 X 4 sq.mm + 2 X 4 sq.mm earth wire.	350	Mtr.	537.00	187950.00	DSR/E&M/3/1.14
19	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required: 2 x 2.5 sqmm + 1 x 1.5 sqmm ECC	750	RM	119.00	89250.00	PWD/E14/1
20	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required: 2 x 4.0 sqmm + 1 x 2.5 sqmm ECC	850	RM	149.00	126650.00	PWD/E14/1
21	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required: 2 x 6 sqmm + 1 x 4 sqmm ECC	250	RM	193.00	48250.00	PWD/E14/1
22	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in 50mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required : 4x126/0.4 (16 sqmm) + 2x80/0.4 (10 sqmm) as ECC	850	RM	795.00	675750.00	PWD/E9/1
		2				

24	Supplying and fixing 320A, 415 V FP MCCB of Breaking capacity 35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs enclosure and necessary connection. (Make: Legrand/ L&T/ Siemens)	1	Each	32925.27	32925.27	Analysis
25	Supplying and fixing 160A, 415 V TP MCCB of Breaking capacity 35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs enclosure and necessary connection. (Make: Legrand/ L&T/ Siemens)	2	Each	13406.19	26812.38	Analysis
26	Supplying and fixing 125A, 415 V TP MCCB of Breaking capacity 35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs enclosure and necessary connection. (Make: Legrand/ L&T/ Siemens)	6	Each	9520.57	57123.42	Analysis
27	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as below: By TATA-Medium GI pipe	9	Each	1524.00	13716.00	PWD/G1/2
28	Earthing with Copper plate (610x610x3mm size) having weight of 9.84 Kg and 1 No. 25x5mm Copper strip (3.20 mt long) & 1 no. 6 sqmm PVC insulated stranded Copper wire (4 Mt long) incl. S & F 15 mm dia GI pipe (ISI-Medium) protection (4 mt. long) to be filled with bitumen, partly under the ground level & partly above ground level to an average depth of 3.65 Mts. below the ground level and restoring the surface duly rammed incl. providing 3.0 mt long, 25 mm dia GI pipe (ISI-Medium) for periodic treatment, incl. providing masonry enclosure on the top of the earth electrode of overall size 86.36x86.36x46cm deep (below Ground level) complete with cemented brick work (1:6) of 25 cm width, duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56x35.56cm with locking arrangement, GI reducer and treatment of soil by using salt & charcoal or coke for plate electrode	4	Each	10466.00	41864.00	PWD/G3/7
29	Extra for treatment of soil by using salt & charcoal or coke for plate electrode	13	Each	531.00	6903.00	PWD/G2/3
30	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required.	10	Mtr.	156.00	1560.00	PWD/G2/4
31	Connecting the equipments body to earth busbar including S & F 25 mm x 6 mm galvanised (Hot Dip) MS flat on wall/floor with GI saddles as required and connection to equipments incl. drilling holes, with bolts, nuts, washers etc.	650	Mtr.	138.00	89700.00	PWD/G3/5
		3				

	Finishing the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages: No. 4 SWG	450	Mtr.	18.00	8100.00	PWD/G2/5
33	Supplying and fixing 125A, 415V Four Pole MCCB of Breaking capacity 25kA/35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection. (Make: Legrand/ L&T/ Seimens)	6	Each	8139.00	48834.00	PWD/D8/ 10
34	Supplying and fixing MCCB SS enclosure with IP- 20/30 protection, powder coated provision for housing Four pole (4P) MCCB, concealed in wall after cutting the wall & mending good the damages to original finish/ on flat iron frame incl. painting, connection & provision for earthing attachment	6	Each	1070.00	6420.00	PWD/D9/ 11
35	Supplying & Laying of 1.1 KV grade 2 x 3½ core 300 sqmm PVC insulated, Al., Ar. Power cable on wall/surface incl. S & F MS saddles with earthing attachment in 2 x 10 SWG GI (Hot Dip) Wire, making holes etc. as necy., mending good damages and painting. (Make: Gloster/KEI/Havells or equ, as approved by EIC)	80	RM	2722.55	217804.00	Analysis
36	Supplying & Laying of 1.1 KV grade 2 x 3½ core 70 sqmm PVC insulated, Al., Ar. Power cable on wall/surface incl. S & F MS saddles with earthing attachment in 2 x 10 SWG GI (Hot Dip) Wire, making holes etc. as necy., mending good damages and painting. (Make: Gloster/KEI/Havells or equ, as approved by EIC)	700	RM	799.88	559916.00	Analysis
37	Supply of spreaders - 4P for incoming & outgoing cable termination. (Make: Legrand or equ. As approved by EIC)	8	Each	1879.42	15035.36	Analysis
38	Supplying & Laying of 1.1 KV grade 3½ core 35 sqmm PVC insulated, Cu., Ar. Power cable on wall/surface incl. S & F MS saddles with earthing attachment in 2 x 10 SWG GI (Hot Dip) Wire, making holes etc. as necy., mending good damages and painting. (Make: Gloster/KEI/Havells or equ, as approved by EIC)	90	RM	468.23 2638'70	42140.70 183564'00 237483'00	Analysis
39	Supplying & Laying of 1.1 KV grade 3½ core 25 sqmm PVC insulated, Cu., Ar. Power cable on wall/surface incl. S & F MS saddles with earthing attachment in 2 x 10 SWG GI (Hot Dip) Wire, making holes etc. as necy., mending good damages and painting	90	RM	389.67 2039'60	35070.30 183564'00	Analysis
40	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of PVC armoured cables as below :					PWD/F4/7
40.01	For 3½ core 500 sqmm	12	Each	556.00	6672.00	
40.02	For 3½ core 150 sqmm	30	Each	307.00	9210.00	
40.03	For 3½ core 35 sqmm	15	Each	162.00	2430.00	
40.04	For 3½ core 25 sqmm	15	Each	152.00	2280.00	
41	Finishing the end of following PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials					PWD/F5/8
41.01	For 3½ core 500 sqmm	12	Set	1266.00	15192.00	
41.02	For 3½ core 150 sqmm	30	Set	434.00	13020.00	
41.03	For 3½ core 35 sqmm (Copper lugs)	15	Set	36.74	551.10	
41.04	For 3½ core 25 sqmm (Copper lugs)	15	Set	28.82	432.30	

43	Supplying & fixing of perforated GI cable tray with perforation not more than 17.5% suspended from ceiling incl. S&F GI connector, 6mm dia MS suspender, bolts & nuts, steel fastener etc. as required of the following size. Incl. AI painting of MS support.					PWD/D14/34
43	250x50x1.25mm (18SWG)	150	Each	177.00	26550.00	
43	250x50x1.25mm (18SWG)	150	Each	211.00	31650.00	
44	Supplying & Fixing 4 Module GI Modular Board complete with top cover plate flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. (Approved by EIC)	20	Each	218.00	4360.00	PWD/E7/2/b
44	Supplying & Fixing 2 Module GI Modular Board complete with top cover plate flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. (Approved by EIC)	20	Each	172.00	3440.00	PWD/E7/2/a
45	Supply & Fixing 240 V, 25 A, 3 pin Modular type plug socket (Brand approved by EIC), without plug top and switch, on existing GI Modular type switch board with top cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc. (Approved by EIC)	20	Each	195.00	3900.00	PWD/E17/4
46	Supply & Fixing Air-conditioner Starters (Make: Electron-OLP3+) on existing GI Modular type switch board with top cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	20	Each	2174.50	43490.00	Analysis
47	Providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below Ground level) complete with cemented brick work(1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos. 12 mm dia holes on the GI pipe.	12	Item	915.00	10980.00	PWD/G2/3
48	Supplying & Fixing 240 V AC/DC superior type Ding-Dong Call Bell (Anchor) on HW board incl. S&F HW board.	4	Each	173.00	692.00	PWD/D13/20
49	Supplying and fixing 8 way double door Vertical TPN MCB Distribution board suitable for upto 160A MCCB incomer with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. (Make: Legrand/ L&T/ Seimens)	6	Each	10683.00	64098.00	PWD/D11/15
50	Supplying and fixing 160A, 415V Four Pole MCCB of Breaking capacity 25kA/35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection. (Make: Legrand/ L&T/ Seimens)	1	Each	9759.00	9759.00	PWD/D8/ 11
51	Supplying and fixing 125A, 415V Four Pole MCCB of Breaking capacity 25kA/35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection. (Make: Legrand/ L&T/ Seimens)	4	Each	8139.00	32556.00	PWD/D8/ 11
52	Supplying and fixing 100A, 415V Four Pole MCCB of Breaking capacity 25kA/35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection. (Make: Legrand/ L&T/ Seimens)	1	Each	7143.00	7143.00	PWD/D8/ 11

53	Supplying and fixing 63A, 415V TP MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	32	Each	1432.00	45824.00	PWD/D6/7
54	Supplying and fixing 32A, 415V TP MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. (Make: Legrand/ L&T/ Seimens)	16	Each	546.00	8736.00	PWD/D6/7
55	Supplying and fixing 400A, 415 V Four Pole MCCB of Breaking capacity 45kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection. (Make: Havells or equ. As approved by EIC)	1	Each	31305.00	31305.00	Analysis
56	Supply & fixing of Extended Rotary Handle (Make: Havells or equ. As approved by EIC)	1	Each	2877.00	2877.00	Analysis
57	Supply & fixing of 4 pole Spreader Terminals (Make: Havells or equ. As approved by EIC)	1	Set	1993.00	1993.00	Analysis
58	Supply & fixing of 4 pole Enclosure (Make: Havells or equ. As approved by EIC)	1	Each	8280.60	8280.60	Analysis
59	Supplying and fixing double door sheet steel (16SWG), powder coated cable end box for TPN DB horizontal / vertical enclosure with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish with nuts bolts etc incl. provision for earthing attachment	16	Each	1072.00	17152.00	PWD/D12/16
60	Supply of Fuse holders & Fuse bases suitable for Cylindrical / DIN fuse-links incl. 5A, 415V Bolted fuse links. (Make: L&T or equ. As approved by EIC)	3	Mtr.	246.11	738.33	Analysis
61	Supply of of indoor tape insulated ring type low tension current transformer of following rating: 400/5A 15VA, C1 1.0 (Make: Approved by EIC)	3	Each	383.00	1149.00	Irrigation/107/5.3 D 43
62	Supply of 3 Phase 4 Wire CT op base mtg 240V, /5A, Acc 0.5s LCD type kWh meter. (Make: L&T or equ. As approved by EIC)	1	Each	4069.40	4069.40	Analysis
63	Supply & fixing of wall mounted panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with neutral link and earthing terminal with proper fixing arrangement and required all accessories as per approved design & specification and site condition.	90	Kg.	323.00	29070.00	Irrigation/105/5.3 D1
64	Supply, delivery, installation, testing & commissioning of 80KVA, 3 phase online UPS with isolation transformer including one hour back up and complete connection with all accessories. (Make: Emerson-Vertiv/ APC or equ. As approved by EIC)	1	Each	558977.00	558977.00	Analysis
65	Supply, delivery, installation, testing & commissioning of 40KVA, 3 phase online UPS with isolation transformer including one hour back up and complete connection with all accessories. (Make: Emerson-Uniline/ APC or equ. As approved by EIC)	1	Each	246114.00	246114.00	Analysis
66	Supply, delivery, installation, testing & commissioning of 12V, 80-100Ah battery for above mentioned UPS. (Make: Exide-SMF VRLA or equ. As approved by EIC)	60	Each	4474.80	268488.00	Analysis
67	Supply & delivery of 2.0 ton capacity Split type room A.C Machine consisting of copper condensing unit & cooling coil complete with wireless Remote. (Make: Carrier - 3 star ,6 Model: Emperia Cx or equ. As approved by EIC).	20	Each	55937.00	1118740.00	S82/0016/11/21-22 dt 20.04 2022

7	Supply & Fixing of A.C. machines (Split Unit) as per direction of the EIC both cooling unit & condensing unit with M.S bracket and other related all accessories.	20	Each	2400.00	48000.00	
69	Supply of Copper refrigerant pipes with proper insulation & control cable (Make: KEI/Polycab/Havells) between condensing unit & cooling unit and rapping with making tape as directed by EIC.	150	RM	750.00	112500.00	Do
70	Supply of Drain pipe of PVC for drainage the water of Split A.C. Machine. (1/2" dia)	600	Ft.	28.00	16800.00	Do
71	Supply & Fixing 240 V, 25 A, 3 pin Modular type plug top with indicator (Brand approved by EIC) & necy. Connections.	20	Each	129.00	2580.00	Do
72	Deployment of Air-conditioning Mistry for dismantling of existing A.C machine.	10	Each	455.00	4550.00	Do
73	Deployment of Helper for Air-conditioning Mistry for dismantling of existing A.C machine.	10	Each	376.00	3760.00	Do
74	Supply & Fixing 240V, Modular Socket (2 Module) type fan regulator (Step type) (Brand approved by EIC) on existing Modular GI switch board with top cover plate incl. Making necy. connections etc.	60	Each	387.00	23220.00	PWD/E18/10
75	suspension exceeding 25 cm with S&F additional 2 no. 20 mm dia EI conduit (14 SWG) supports & necy. PVC insulated wire and painting etc. as required by 2x24/0.20 mm (1.5sqmm.) flexible copper wire of 1.10 mt. length.	50	RM	155.00	7750.00	PWD/C2/16
76	Supply & Fixing RJ45 sitable for CAT6 cable (Brand approved by EIC) with PVC board and top cover plate on wall and making necessary connections & testing as required	50	Each	197.00	9850.00	PWD/E18/8/a
77	Supply & Fixing Telephone socket (RJ11) Modular type (Brand approved by EIC) with PVC board and top cover plate on wall and making necessary connections & testing as required	30	Each	163.00	4890.00	PWD/E18/8/b
78	Supplying & Drawing LAN cable (CAT6) (Brand approved by EIC) in prelaid PVC rigid conduit/ in polythene pipe embeded in wall.	2500	RM	28.00	70000.00	PWD/E19/21
79	Supplying & Drawing 2-pair Telephone cables with high density polyethylene insulated solid annealed high conductivity bare copper of dia 0.5mm in prelaid PVC rigid conduit/ in polythene pipe embeded in wall.	1500	RM	16.00	24000.00	PWD/E19/22
80	Supplying and fixing 320A, 415V, TPN on load front operated Changeover switch with Sheet Steel enclosure on angle iron frame on wall with nuts bolts etc. (Make: L&T/ Legrand/ Seimens)	1	Each	15588.00	15588.00	PWD/D2/3
81	Supply of 100 mm x 38 mm - 3 compartments PVC raceways for cable management system complete. (Male: Legrand or equ. As approved by EIC)	350	Mtr.	1819.75	636912.50	Analysis
82	Supplying & Fixing sheet metal inspection box (16 SWG) of the following sizes flushed in wall by housing the same after cutting brick wall incl. making earthing attachment, painting and mending good damages to building works: 200 mm x 150 mm x 65 mm	10	Each	212.00	2120.00	PWD/E4/11
83	Supply & Fixing bakelite / perspex top cover on existing switch board by Brass screws after making housing for switch by cutting bakelite / perspex cover and making necessary connections as required: 200 mm x 150 mm x 65 mm	10	Each	60.00	600.00	PWD/E4/12

	Supply of height adjustable junction box 500 x 500 x 65 - 90 mm for direct access to cables at the intersection of raceways supplied completely with base and cover plate. (Make: Legrand or equ. As approved by EIC)	10	Each	3699.00	36990.00	Analysis
85	Supplying and fixing of 20mm PVC Rigid Conduit 'FR' [Precision Make] on wall, ceiling with saddles and other accessories as required and mending good damages to building works.	4000	RM	51.00	204000.00	PWD/E16/7
Estimated value				10475185.05	10510131349.05	
GST @18%				1885533.31	1823642.83	
Cost of Electrical works including GST				12360718.36	11954991.88	
Contingency charge @3%				370821.55	358549.76	
Cost of Electrical works including GST & Contingency charge				12731539.91	12313641.64	
Labour welfare cess @1%				127315.40	123136.42	
Total				12858855.31	12436778.05	
Say				12858855.31	12436778.05	

86
08/11/23

Sub-Assistant Engineer (Electrical)
The W.B.S.I.D.C. Ltd.

ESTIMATOR (E)
The W.B.S.I.D.C. Ltd.

AE(E) J L

Estimate

Probable items for setting up Local Area Network and Telephone system at CLC Bantala, Leather Complex

Sl. No.	Description of items	Qty.	Unit	Rate (Rs.)	Amount (Rs.) (incl. of all taxes)
1	Supply & Fixing RJ45 suitable for CAT6 cable (D-Link or equivalent as approved by EIC) with PVC board and top cover plate on wall and making necessary connections & testing as required.	66	Each	234.78	15495.48
2	Supply and Fixing of Patch Cord Category6 4 pair, U/UTP, Horizontal cable, 23 AWG solid bare copper conductor with RJ45 connector at both end 1 Mtr. Length (Make: D-Link/ Molex/ Belden/ Panduit/ Primus or equivalent as approved by EIC)	47	Each	185.00	8695.00
3	Supply and Fixing of Patch Cord Category6 4 pair, U/UTP, Horizontal cable, 23 AWG solid bare copper conductor with RJ45 connector at both end 2 Mtr. Length (Make: D-Link/ Molex/ Belden/ Panduit/ Primus or equivalent as approved by EIC)	40	Each	292.00	11680.00
4	Supply, Installation, Testing & Commissioning of CAT6 U/UTP 24 Port modular fully loaded patch panel TIA/EIA-568-C.2:2009 EN 50173-1:2011 Class E, ISO/IEC11801:2010 (Ed 2.2) Class E, FCC Subpart F68.5 UL Listed. (Make: D-Link/ Molex/ Belden/ Panduit/ Primus or equivalent as approved by EIC)	2	Each	2480.86	4961.72
5	Supply of 24 Port Gigabit DG1024C LAN Switch. (Make: D-Link/ Molex/ Belden/ Panduit/ Primus or equivalent as approved by EIC)	2	Each	6331.64	12663.28
6	Supply of Cantilever shelf Tray for Rack. (Make: D-Link/ Molex/ Belden/ Panduit/ Primus or equivalent as approved by EIC)	1	Each	474.95	474.95
7	Supply, Installation, Testing & Commissioning of wall mounted cross connect equipments 12U x 500 x 500 Rack - front glass door with cam lock, fan unit of 90CFM/ 230Volt - 1 No., 6 way 5A PDU along with input cable - 1 No., hardware pocket of 20 - 3 Nos. (Make: Vertiv/ Netrack/Valrack/APW or equivalent as approved by EIC)	1	Each	7840.63	7840.63
8	Supplying & Drawing LAN cable (CAT6) (Brand approved by EIC) in pre-laid PVC rigid conduit/ in polythene pipe embedded in wall.	2745	RM	33.37	91600.65
9	Supplying and fixing 20 mm PVC Rigid Conduit 'FR' [Precision Make] on wall, ceiling with saddles and other accessories as required and mending good damages to building works.	2745	RM	60.78	166841.10

10	Supply and Fixing of 1000VA (30 Min. Backup) single phase Online Modular UPS with Isolation Transformer (Digital Signal Processor Controlled IGBT Rectifier and DSP controlled PWM using IGBTs. Efficiency Should be more than 95% at 100 % load, Pure Sin wave harmonic distortion less than 3 %, Power factor greater than 0.9 including Double UPS battery complete with self standing cubicle or cabinet. Certification: BIS ISO 9001: 2015, ISO 14001: 2015, ISO 18001, RoHS, CE Certification: IEC/EN 62040-1-1, IEC/EN50091-1, IEC/EN 60950 (Safety) (Make: Microtec, Legend 1000U / APC / Delta/ EMAERSON/ NUMERIC or equ as approved by EIC)	1	Each	9339.32	9339.32
11	Supply of HPE Networking Instant On Access Point AP32. (Make: HP or equ as approved by EIC)	5	Each	39044.26	195221.30
12	Supply of HPE Networking Instant On Switch Series 1930 8-Port Gb Smart-Managed Layer 2+ Ethernet Switch with PoE. (Make: HP, 8X 1G 2XSFP 8XCL4 PoE 124W US Cord or equ as approved by EIC)	1	Each	41161.49	41161.49
13	Supply, Installation, Testing & Commissioning of EPBAX system with following specification: 4 CO LINE +1 DIGITAL EXT+ 64 EXTENSIONS etc. CLI Based call routing, Hotel Software, Built in 75 internal voice prompts for user's help, Built in 8 port auto attendant, Built in CLI on analogue extensions, 10000 calls memory, Billing and Budgeting Serial Port. Any Normal Telephone Instrument can be Connect. (Make: Syntel, Model : NEOS 4S (4+1+ 64) or equ as approved by EIC)	1	Each	54827.85	54827.85
14	Supply of 50 Pair MDF Box with Krone Module for Telephone Junction Box. (Make: Syntel or equ as approved by EIC)	1	Each	1360.98	1360.98
15	Supply of Beetel Telephone set, Model no:C11. (Make: Equ as approved by EIC)	20	Each	800.88	16017.60
16	Supply of NEOS KTS 24 wire Digital key phone for reception. (Make: Syntel or equ as approved by EIC)	1	Each	5171.71	5171.71
17	Supply and installation of KTS24 (4Wire), (Make: SYNTEL)	1	Each	10970.52	10970.52
18	Supply of 4kVA Single Phase Voltage stabilizer (Make: OPTO or equ as approved by EIC)	1	Each	3694.08	3694.08
19	Supply of 10 Pair MDF Box with Krone Module for Telephone Junction Box. (Make: Syntel or equ as approved by EIC)	1	Each	233.31	233.31
20	Installation, Commissioning & Documentation by highly skilled technician charges with 5 years support.	24	Each	685.64	16455.36
Estimated value					674706.33
Contingency charge @3%					20241.19
Total					694947.52
Say					694948.00

24.6.25

24/6/25

ESTIMATOR (E)

The W.B.S.I.D.C. Ltd

24/6/25

Assistant Engineer (Elec.)
WBSIDC Ltd.

Vetted

24.06.25.

Executive Engineer, PWD
Govt. of West Bengal
on deputation at
MSME & T Department

Sub-Assistant Engineer (Electrical)
The W.B.S.I.D.C. Ltd

**Estimate for Water Supply Pipe Line at Footwear & Leather Testing LAB CLRI-CLC
(BOQ)**

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials.				
	(a) For Exposed Work (i) CPVC Pipes Class-1, SDR-11				
1.1	20mm. Dia.	70.00	RM	143.00	10010.00
1.2	32mm. Dia.	120.00	RM	283.00	33960.00
1.3	40mm. Dia.	140.00	RM	403.00	56420.00
2	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately) (a) For Exposed Work				
2.1	40mm	20.00	RM	292.00	5840.00
2.2	100mm	50.00	RM	1134.00	56700.00
3	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer (a) 1500 litre capacity	1.00	Each	7840.00	7840.00

4	Labour for hoisting plastic water storage tank. (i) Upto 1500 litre capacity. (a) Upto 1st story from G.L.	1.00	Each	96.00	96.00
	(b) Extra for each additional story	2.00	Each	43.00	86.00
5	Labour for punching hole in plastic water storage tank upto 50 mm dia.	3.00	Each	19.00	57.00
6	Supplying, fitting and fixing bib cock or stop cock. (b) (i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	8.00	Each	493.00	3944.00
7	Supplying, fitting and fixing glass shelf with aluminium guard rails. (a) Ordinary type with 5.5 mm sheet glass (i) 450 mm X 125 mm	8.00	Each	341.00	2728.00
8	Supplying, fitting and fixing liquid soap container. (d) Polythene	8.00	Each	98.00	784.00
9	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes.	0.23	Cum	5501.81	1237.91
10	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor). [Excluding cost of chipping over concrete surface] With cement mortar (1:6) 20mm thick plaster. (Inside Plaster)	4.90	Sqm.	183.73	900.28
11	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 cu.m per 100 sq.m	0.96	Sqm.	32.76	31.32
12	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand. (1.5 mm thick)	4.90	Sqm	122.00	597.80
13	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. In Ground Floor: (b) Two Coats	4.90	Sqm	45.10	220.99

14	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC. Two Coats ii) Solvent based interior grade Acrylic Primer	4.90	Sqm	48.50	237.65
15	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. In Ground floor (Two Coat) a) Normal Acrylic Emulsion	4.90	Sqm	67.00	328.30
16	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two Coats	4.90	Each	70.00	343.00
17	Supply of PVC pipes & fittings Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I) (C) Elbow (100 mm Dia)	3.00	Each	479.00	1437.00
18	Supply of Chlorinated Polyvinyl Chloride (CPVC) pipes & fittings conforming to IS-15778: 2007 (Q) Ball Valve (32 mm)	8.00	Each	399.00	3192.00
	(I) Tank connecting nipple 40MM	1.00	Each	190.00	190.00
	32 MM	1.00	Each	166.00	166.00
	Total				₹ 1,87,347.25
	Add GST@18%				₹ 33,722.51
	Total				₹ 2,21,069.76
	Add CESS@1%				₹ 1,873.47
	Total				₹ 2,22,943.23
	Add Contingency 3%				₹ 5,620.42
	Net Total Amount				₹ 2,28,563.65
	Say				₹ 2,28,564.00

Estimate vetted

[Signature]

[Signature]
20/06/2025
Sub-Assistant Engineer
The W.B.S.I.D.C. Ltd.

[Signature]
20.06.2025
Assistant Engineer (Civil)-II
The W. B. S. I. D. C. LTD.

[Signature]
20.06.25
Executive Engineer, PWD
Govt. of West Bengal
on deputation at
MSME & T Department

Sr. Superintending Engineer, PWD
Govt. of West Bengal
on deputation at
MSME & T Department

Estimate for Water Supply Pipe Line at Footwear & Leather Testing LAB CLRI-CLC

Sl.No	Description of Item	No.	Unit	L (m)	B (m)	H/D (m)	Quantity
1.P-29 It-1,of Sanitary SOR	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,jointing materials in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials						
	For exposed works (i) CPVC Pipes Class-1, SDR-11						
	20mm. Dia.	1	RM	70.00			70.00
	32mm. Dia.	1	RM	120.00			120.00
	40mm. Dia.	1	RM	140.00			140.00
2.P-13 It-19/II,of Sanitary SOR	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads,fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately)						
	40mm	1	m	20.00			20.00
	100mm	1	m	50.00			50.00

3.P-37 It-6/a,of Sanitary SOR	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer						
	(a) 1500 litre capacity	1	Each	1.00			1.00
4.P-37 It- 10/i/a,of Sanitary SOR	Labour for hoisting plastic water storage tank. (i) Upto 1500 litre capacity. (a) Upto 1st story from G.L.	1	Each	1.00			1.00
	(b) Extra for each additional story	1	Each	2.00			2.00
5.P-38 It-13,	Labour for punching hole in plastic water storage tank upto 50 mm dia.	1	Each	3.00			3.00
	Total	1	Each	3.00			3.00
6.P-6 It-19/a	Supplying, fitting and fixing bib cock or stop cock. (b) (i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar brand).						
	For Besin	1	Each	8.00			8.00
7.P-81 It-16/a	Supplying, fitting and fixing glass shelf with aluminium guard rails. (a) Ordinary type with 5.5 mm sheet glass (i) 450 mm X 125 mm	1	Each	8.00			8.00
8.P-82 It-17/d	Supplying, fitting and fixing liquid soap container. (d) Polythene	1	Each	8.00			8.00
9. P-26 /It- 10,i	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.	1	Cum	1.5	1.5	0.1	0.225
10 P-189 It- 1,	With cement mortar (1:6) 20mm thick plaster. (Wataer Tank Platform)	1	Sqm	1.5	1.5		2.25
		1	Sqm	1.5		0.1	0.15
	Wall	40	Sqm	0.25	0.25		2.50
	Total		Sqm				4.90
11. P-192, It- 15	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE:Cement 0.152 cu.m per100 sq.m	1	Sqm	1.5	1.5	0.425	0.96
12. P-198, It- 5	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)	1	Sqm	Same as Plaster			4.90

13. P-196, It-8	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC.	1	Sqm	Same as Plaster			4.90
13. P-195, It-7	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the	1	Sqm	Same as Plaster			4.90
14. P-197, It-17	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. In Ground floor (Two Coat) a) Normal Acrylic Emulsion	1	Sqm	Same as Plaster			4.90
15. P-196, It-10	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two Coats	1	Sqm	Same as Plaster			4.90
16. P - 13, 19(III)	Supply of PVC pipes & fittings Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I)	1	Each	3.00			3.00
17. P - 30, 2	Supply of Chlorinated Polyvinyl Chloride (CPVC) pipes & fittings conforming to IS-15778: 2007 (Q) Ball Valve (32 mm)	1	Each	8.00			8.00
	(I) Tank connecting nipple 40MM	1	Each	1.00			1.00
	32 MM	1	Each	1.00			1.00

Railway Yard :	Sealdah
Type of Concrete :	Ordinary Cement Concrete (1:2:4)
Name of Site :	CLC
District :	S 24 Pgs.
Distance From Railway Yard to Site :	20.00 KM

SI No.	Description	Volume	Rate	Amount
		Cum.	Rs.	Rs.
1	Ordinary Cement Concrete (1:2:4) Pakur Variety 3rd corrigendum P- 10,I.No.-27			4060.00
2	Add Rate of Pakur Variety Stone aggregates at Sealdah Railway Yard [Table : T-1,P-1]			
	20mm Nominal size	0.66	1430.00	943.8
	10mm Nominal size	0.22	1299.00	285.78
3	Add Road Carriage from Railway yard to site			
	Total Carriage cost	0.88	279.50	245.96
4	Loading & Unloading [Table : T-3]	0.88	58.00	51.04
5	Total =			5586.58

Any Distance upto 5 KM		124.00
5KM to10KM	5X10.90	54.50
10KM to 20KM	10X10.10	101.00
Total =		279.50

Steps	Description	Quantity of Cement :		Issue rate of cement	Basic Price of	Amount (Rs.)
		Cum	MT.			
A	Rate of item as per relevant section schedule					5586.58
B	Deduct cost of Cement (Quantity of cement x Issue rate)	0.22	0.3143	6289.00		1976.54
C	Add cost of Cement supplied by Contractor (Quantity of Cement x Basic price of cement)	0.22	0.3143		5717.00	1796.77
	Final Rate = (A-B+C) =					5406.81

1st floor
2nd floor

5501.81
5596.81

Analysis of Rate of Item involving use of Cement (PSC/PPC) supplied by contractor						
Plaster (to wall, floor, ceilling etc.) with sand cement mortar 20mm thick (1:6)						
Name of District: S 24 Pgs.						

Unit : 100 Sqm

Steps	Description	Quantity of cement		Issue Rate of Cement	Basic Price of	Amount (Rs.)
		Cum	MT			
A	Rate of item as per relevant					17500.00
B	Deduction cost of cement	0.40	0.571429	6289.00		3593.71
C	Add cost of cement supplied by	0.40	0.571429		5717.00	3266.86
D	Final Rate of Item (A-B+C)					17173.14

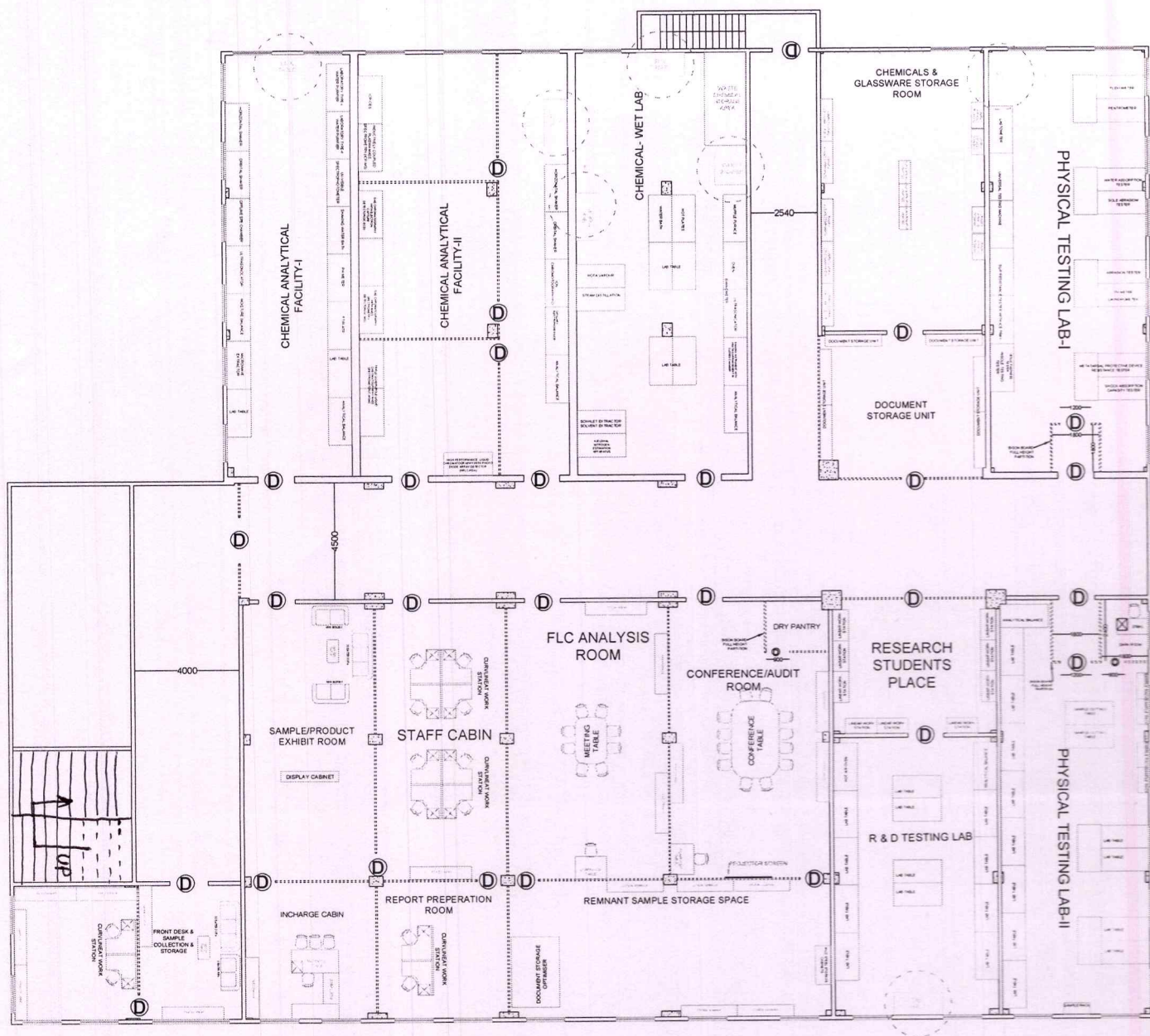
Final Rate (per sqm) =	Rs.	171.73
Rate in First Floor =	Rs.	183.73
Rate in Second Floor =	Rs.	195.73

Analysis of Rate of Item involving use of Cement (PSC/PPC) supplied by contractor
 Neat cement punning about 1.5 mm thick in wall, dado, window, sill, floor drain etc.
 Name of District: S 24 Pgs.

Unit : 100 Sqm

Steps	Description	Quantity of cement		Issue Rate of Cement	Basic Price of	Amount (Rs.)
		Cum	MT			
A	Rate of item as per relevant					3400.00
B	Deduction cost of cement	0.152	0.217143	6289.00		1365.61
C	Add cost of cement supplied by	0.152	0.217143		5717.00	1241.41
D	Final Rate of Item (A-B+C)					3275.79

Final Rate (per sqm) =	Rs.	32.76
------------------------	-----	-------



CLC-KOLKATA

FIRST FLOOR

PLUMBING WORK

Water inlet from the water resource (minimum 2 Nos of 5000-liter water tank-in not available must be included along with plumbing work) to the different spots mentioned in the floor map/drawing attached and marked with markings with high-quality CPVC pipes/joints/L-bends/T-joints/necks with additional ball valve on each room entry side. Wastewater connections should be provided from each water inlet area to the existing sewage system. CPVC pipe of the required size to satisfy the site requirement may be used as directed by the CSIR-CLRI.

FLOOR MAP/PLAN

Ground Floor

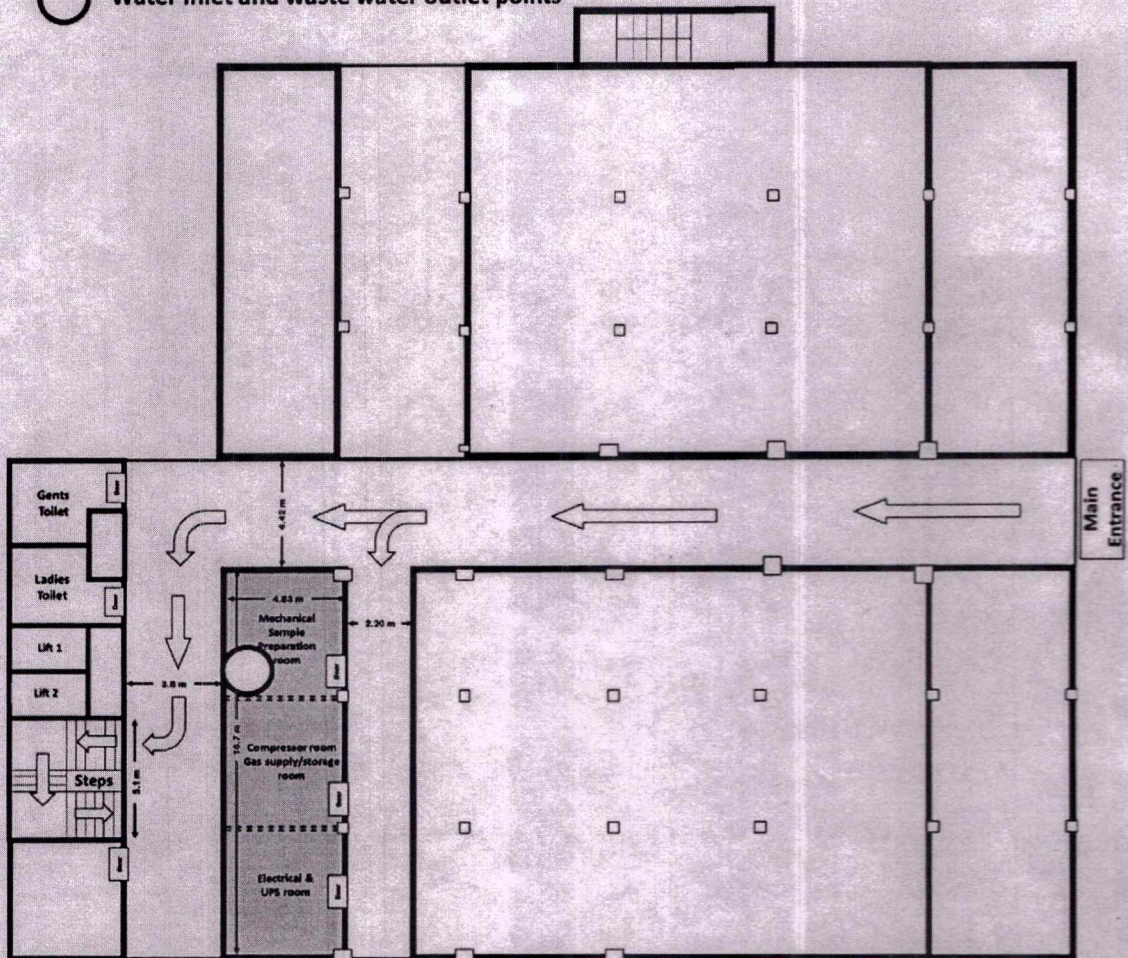
..... Proposed Partition



Proposed False Ceiling work



Water inlet and waste water outlet points



..... Proposed Partition

First Floor



Proposed False Ceiling work



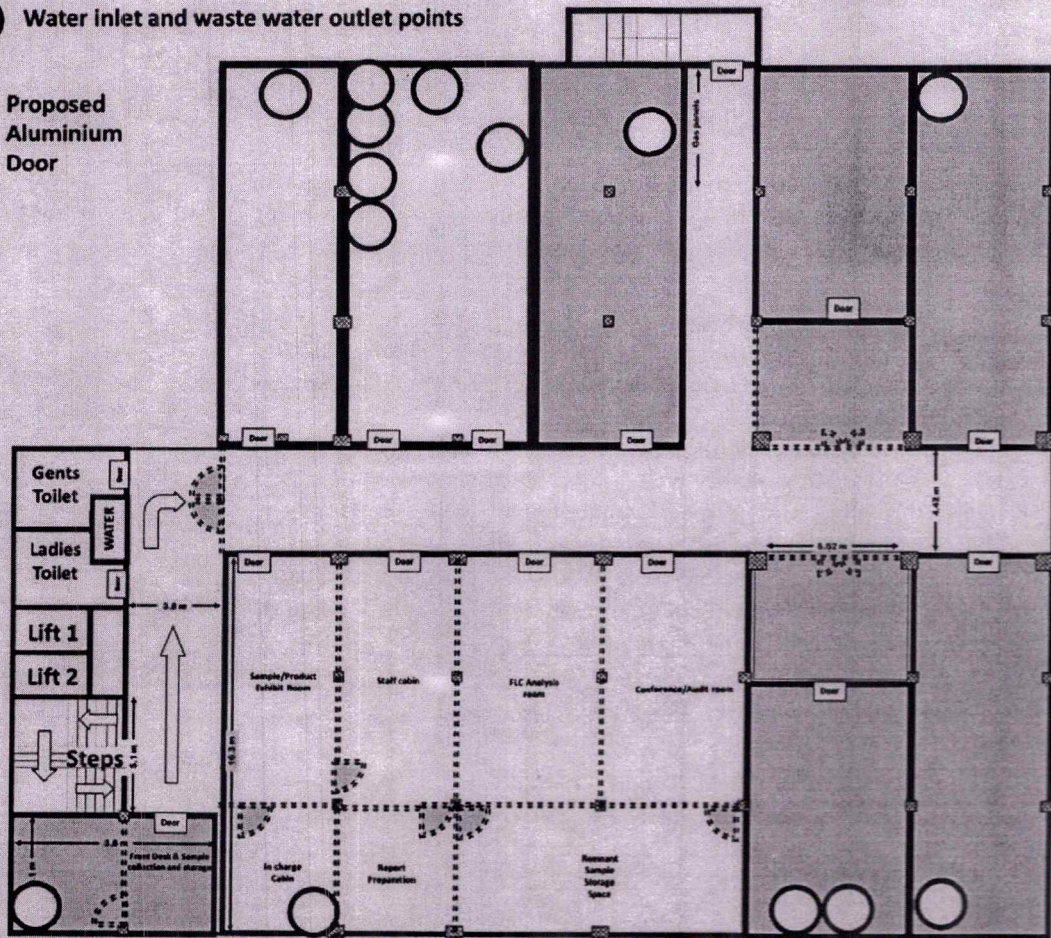
Bison Panel on all existing Windows of the first floor



Water inlet and waste water outlet points



Proposed Aluminium Door



Gas line connection

Gases												
Sr. No.	Item	Size		Connection		MOC	Make	UoM	Services			
		In	Out	In	Out				N2	H2	HE	ZA
									1+1	1+1	1+1	1+1
	Gas bank and changeover panel											
1	Unistrut Frame 1+1 Cyl. Manifold					MS	Pci fabricated	Set.	1	1	1	1
2	Cylinder Bracket with chain					MS	Pci fabricated	No.	4	4	4	4
3	Nut Bullnose	-	1/4"	-	NPTM	SS316	P-lok	No.	2	2	2	2
4	Check Valve	1/4"	1/4"	NPTF	NPTM	SS316	P-lok	No.	2	2	2	2
5	Hose ,1 Mtr Long	1/4"	1/4"	NPTF	NPTF	SS316	P-lok	No.	2	2	2	2
6	Semi Auto Changeover Panel, Flow: 150 LPM, Along with Purging System- 1/4" NPTF End (with Safety Relief Valve 1/4" NPTF) with outlet regulator and gauge	1/4"	1/4"	NPTF	NPTF	SS316	P-lok	No.	1	1	1	1
7	Outlet Connector	1/4"	1/4"	NPTM	OD CF CF	SS316	P-lok	No.	1	1	1	1
8	Hex Nipple	1/4"	1/4"	NPTM	NPTM	SS316	P-lok	No.	2	2	2	2
9	Purge valve and safety valve connector	1/4"	1/4"	NPTM	OD CF CF	SS316	P-lok	No.	3	3	3	3
10	Ball Valve	1/4"		OD CF CF		SS316	P-lok	No.	1	1	1	1
11	Equal Tee	1/4"		OD CF		SS316	P-lok	No.	2	2	2	2
12	Non Return Valve	1/4"		OD CF		SS316	P-lok	No.	3	3	3	3
13	Flash Back Arrestor with Connector	1/4"		OD CF		Brass	Messer	Nos	0	1	0	0
14	Seamless Tube	1/4"				SS316	Scoda/Sumitomo	Mtr.	6	6	6	6
Lab Piping & Accessories												
15	source connector						Indigineous	Nos	0	0	0	0
16	Pressure gauge with required tee fitting	1/2"					Indigineous	Nos	0	0	0	0
17	Point of use regulator with inlet outlet gauge, ball valve and wall mounting plate	1/4"	1/4"	OD CF	OD CF	SS316	P-lok	Nos	0	0	0	0
18	Ball Valve	1/2"		OD CF		SS316	P-lok	Nos	0	0	0	0
19	Ball Valve	1/4"		OD CF		SS316	P-lok	Nos	6	2	2	2
20	Equal Tee	1/4"		OD CF		SS316	P-lok	Nos	6	2	2	2
21	Unequal Tee	1/2"	1/4"	OD CF	OD CF	SS316	P-lok	Nos	0	0	0	0
22	Reducing Union	1/2"	1/4"	OD CF	OD CF	SS316	P-lok	Nos	0	0	0	0
23	Gas purification panel	1/4"	1/4"	OD CF		Al powder-coated	PCI	Nos	6	2	2	2
24	Micron filter	1/4"		OD CF		SS316	P-lok	Nos	6	2	2	2
25	Gas distribution panel	1/4"	1/8"	OD CF		Al powder-coated	P-lok	Nos	2	2	2	2
26	GC Connector	1/8"				SS316	P-lok	Nos	2	2	2	2
27	Equipment connector	1/4"		As Per Site Condition		SS316	P-lok	Nos	5	1	1	1
28	LCMS connector	1/4"		As Per Site Condition		SS316	P-lok	Nos	0	0	0	0
29	Seamless Tube	1/2"		OD CF		SS316	Scoda/Sumitomo	Mtr	0	0	0	0
30	Seamless Tube	1/4"		OD CF		SS316	Scoda/Sumitomo	Mtr	108	54	54	54
31	Seamless Tube	1/8"		OD CF		SS316	Scoda/Sumitomo	Mtr	6	6	6	6
32	Union	1/2"		OD CF		SS316	P-lok	Nos	0	0	0	0
33	Union	1/4"		OD CF		SS316	P-lok	Nos	18	9	9	9
34	Box Clamp with tee nut & SS Allen Screw	1/2"		OD CF		PP	P-Lok	Nos	0	0	0	0
35	Box Clamp with tee nut & SS Allen Screw	1/4"				PP	P-Lok	Nos	108	54	54	54
36	Tagging					Acrylic	P-Lok	Nos	522			
37	Aluminium profile					AL	P-Lok	Mtr	50			

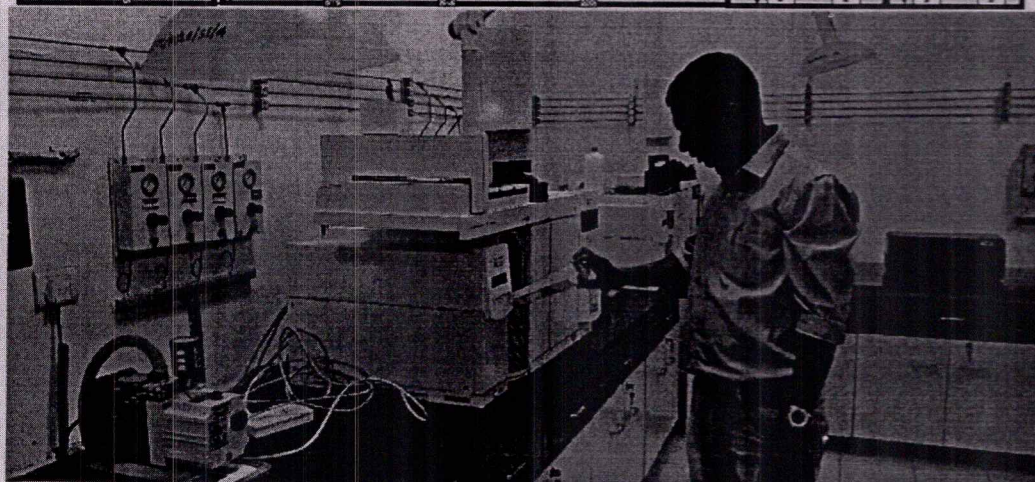
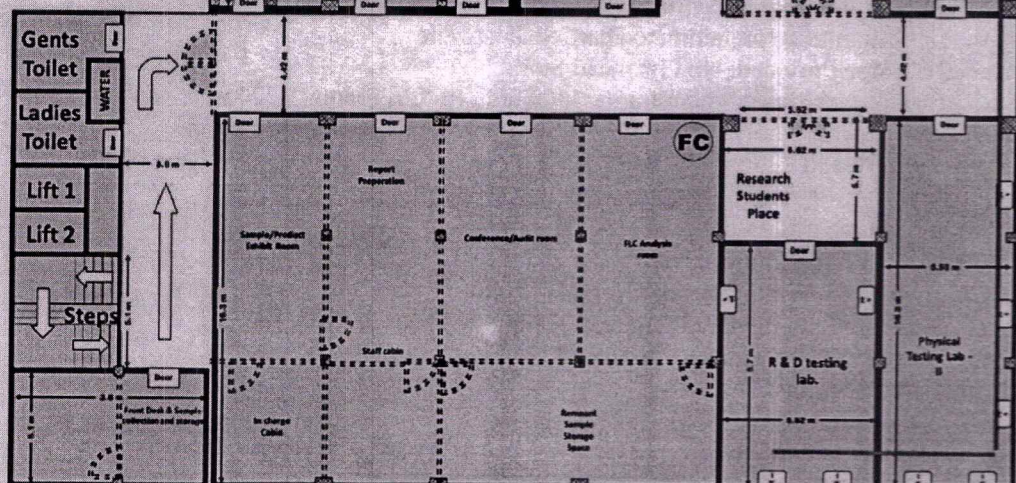
[illegible]

					Supply		Installation		
O2	AR	N2	CA	Total			INR		
I+1	I+1	I+1		Qty	U/F INR	T/F INR			
1	1	1	0	7	9,500.00	66,500.00			
4	4	4	0	28	1,250.00	35,000.00			
2	2	2	0	14	750.00	10,500.00			
2	2	2	0	14	2,250.00	31,500.00			
2	2	2	0	14	2,250.00	31,500.00			
1	0	1	0	6	38,500.00	2,31,000.00			
1	1	1	0	7	250.00	1,750.00			
2	2	2	0	14	300.00	4,200.00			
3	3	3	0	21	250.00	5,250.00			
1	1	1	0	7	1,650.00	11,550.00			
2	2	2	0	14	400.00	5,600.00			
3	3	3	0	21	2,250.00	47,250.00			
0	0	0	0	1	5,500.00	5,500.00			
6	6	6	0	42	400.00	16,800.00			
				0					
0	0	0	1	1	750	750.00			
0	0	0	1	1	5500	5,500.00			
0	0	0	4	4	7,500.00	30,000.00			
0	0	0	1	1	1,950.00	1,950.00			
2	2	1	4	21	1,650.00	34,650.00			
1	1	0	0	14	400.00	5,600.00			
0	0	0	3	3	750.00	2,250.00			
0	0	0	1	1	450.00	450.00			
2	2	1	0	17	15,500.00	2,63,500.00			
2	2	1	0	17	1,650.00	28,050.00			
0	0	0	0	8	5,500.00	44,000.00			
0	0	0	0	8	250.00	2,000.00			
2	2	0	0	12	250.00	3,000.00			
0	0	1	0	1	250.00	250.00			
0	0	0	48	48	550.00	26,400.00			
54	54	42	54	474	400.00	1,89,600.00			
0	0	0	0	24	200.00	4,800.00			
0	0	0	8	8	400.00	3,200.00			
9	9	7	9	79	300.00	23,700.00			
0	0	0	48	48	150.00	7,200.00			
54	54	42	54	474	150.00	71,100.00			
				522	20.00	10,440.00			
				50	600.00	30,000.00			

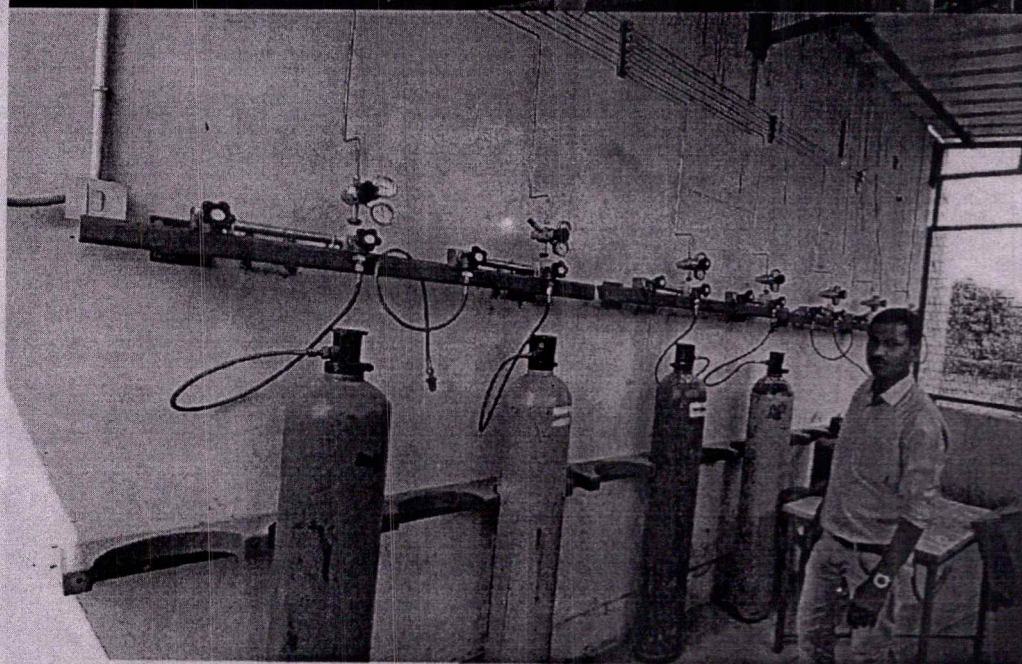
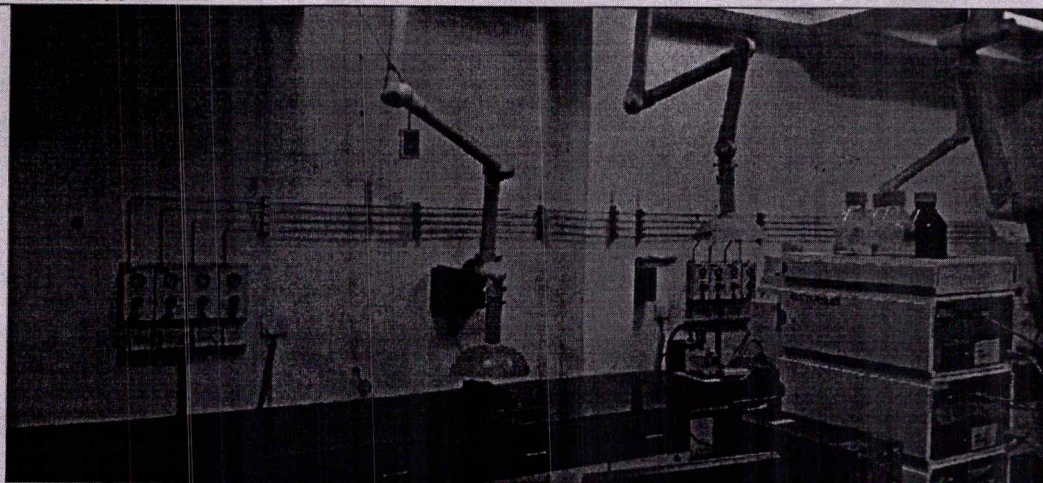
[illegible]

GAS Pannel

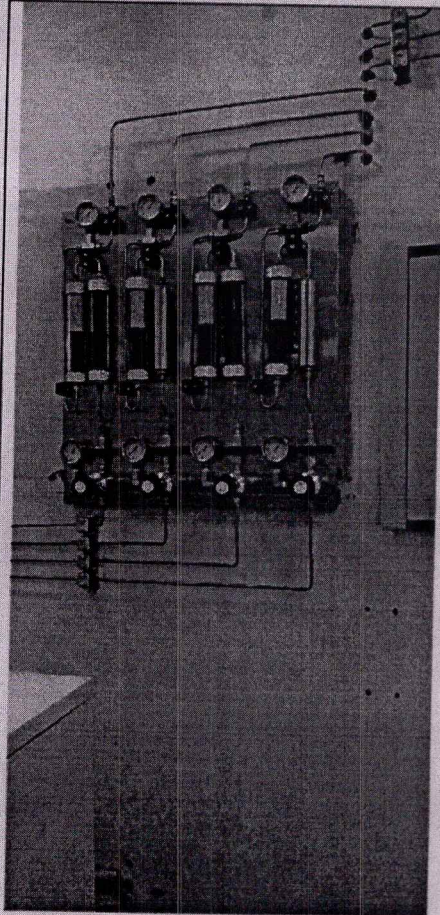
Hydrogen, Zero air a
compressed gas only



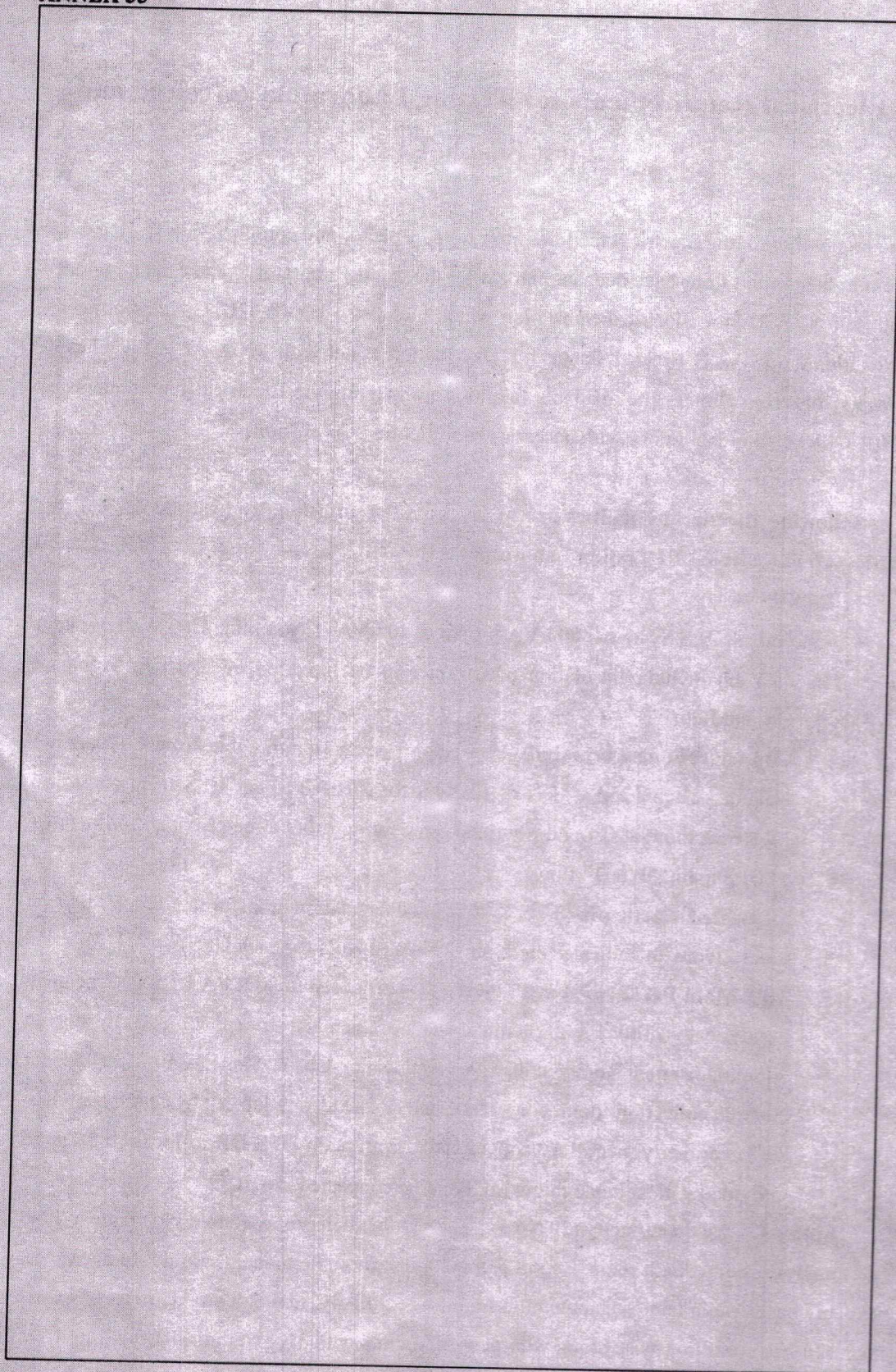
ANNEX 33



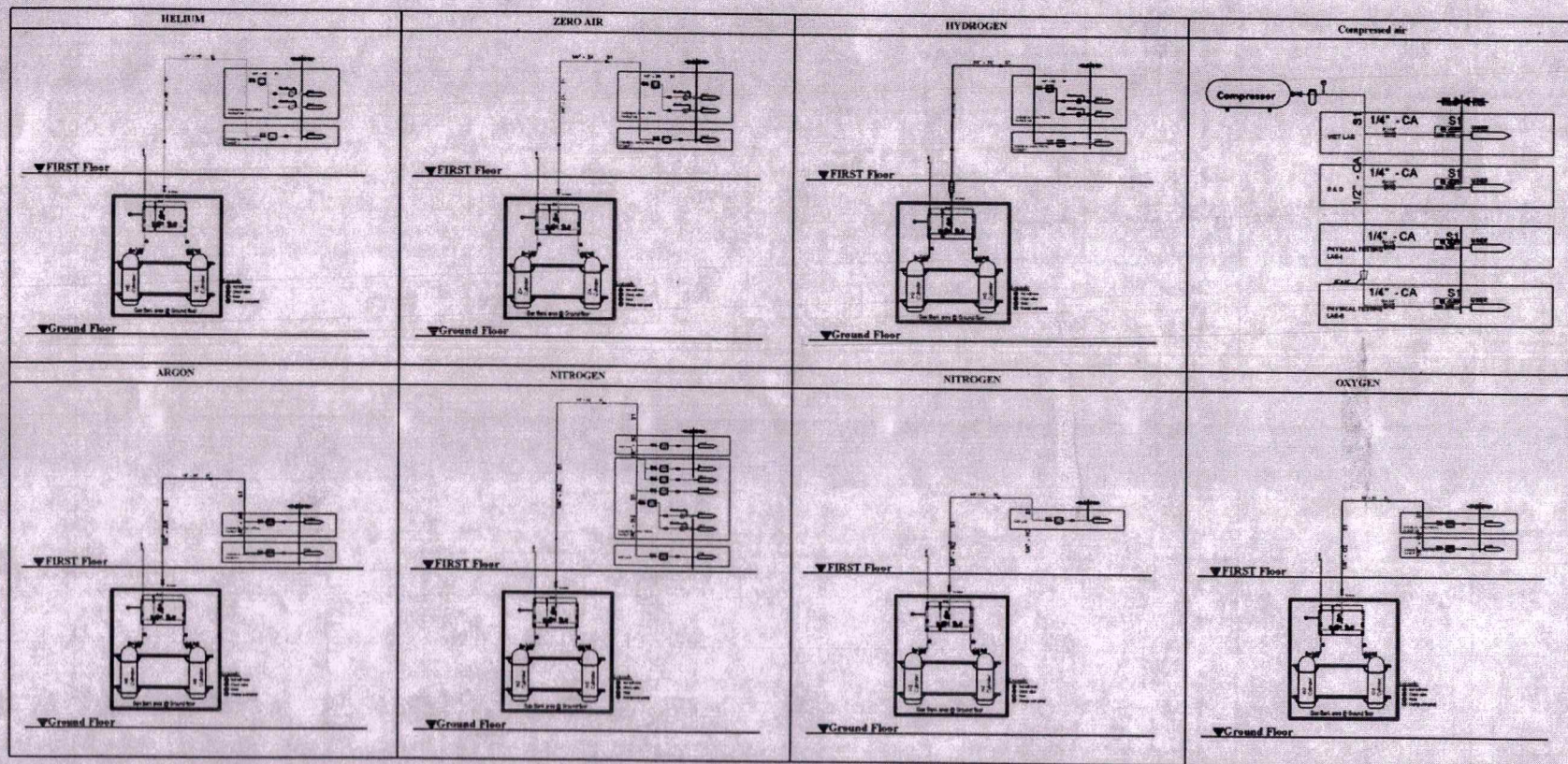
ANNEX 33



ANNEX 33



Gas line connection.



LEGEND

SYMBOLS

Helium(H2)
Hydrogen(H2)
Zero Air(ZA)
Nitrogen(N2), O2
Oxygen(O2)
Compressed air(CA)
Argon(AR)
Helium(HE)

SYMBOLS

Ball Valve
Line Regulator
Reducer
Connector
Purification Panel
Distribution Panel
Hydro Filter

PIPE IDENTIFICATION

1/2" - CA S1
Service
Size in inches
S1- SS316 C1- CPVC

NOTE

1) Any civil work required like wall cut, core cut, foundation, etc will be in client scope.

NOTE: THE PIPING SUPPLY IS IN THE CLIENT SCOPE.

Client:

QLC LAB KOLKATA

Client Contractor: PCI ANALYTICS PVT. LTD.
As per the scope of work, the client will provide the necessary infrastructure and utilities for the lab.

Drawing Title:

P&ID

Drawing No: PCI/QLC/KL/PID/01

Sheet Size: A2 Scale: NTS Sheet No: 1 OF 1 Revision: 0

FOR PROPOSAL			
Drawn By	Checked By	Client Approval-01	Client Approval-02