



# CIPET

**E-TENDER  
BIDDING DOCUMENT FOR  
CONSTRUCTION OF PEB SHED FOR TOOL ROOM  
At CIPET: IPT, Kochi**

**ONLINE TENDER NO.  
CIPET: IPT/KOCHI/CONS/TOOL ROOM/2020-21/01  
*LAST DATE FOR SUBMISSION OF ONLINE BIDS: 27/07/2020***

**CIPET: INSTITUTE OF PLASTICS TECHNOLOGY (IPT)**  
(Dept. of Chemicals & Petrochemicals,  
Ministry of Chemicals & Fertilizers, Govt. of India)  
Eloor, Udyogamandal P.O., Kochi – 683501.  
Phone: 0484 – 2547741 / 2547742  
E-mail: [kochi@cipet.gov.in](mailto:kochi@cipet.gov.in) , [cipetkochi@gmail.com](mailto:cipetkochi@gmail.com)  
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**CIPET: Institute of Plastics Technology (IPT),**  
**(Dept. of Chemicals & Petrochemicals,**  
**Ministry of Chemicals & Fertilizers, Govt. of India)**  
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 Web: [www.cipet.gov.in](http://www.cipet.gov.in)

**CIPET: IPT/KOCHI/CONS/TOOL ROOM/2020-21/01**

**Dated 03/07/2020**

Online tender, (two bid system – technical and financial) are invited from reputed contractor's/ service providers for **civil work for Construction of PEB structure, and designing, fabrication, supply and erection of PEB structure** at CIPET: IPT, Kochi.

Sl. No.	Description of Work	PAC (in Rs.)	Time allowed for completion of work	EMD (Rs.)	Cost of tender form (In Rs.)	
					Tender Cost	Online Processing fee
1	Tender documents for both civil and electrical LT works for the construction of PEB structure, and designing, fabrication, supply and erection of PEB structure at CIPET: IPT, Kochi	100 lakhs	90 days from the date of award of work	Rs.2,00,000 (in the form of demand draft drawn from any nationalized bank in favour of CIPET: IPT, Kochi	1000/-	As per the charges prescribed in tender wizard site

- Interested and eligible bidders may view and download details tender documents from CIPET's e-tender portal [www.tenderwizard.com/CIPET](http://www.tenderwizard.com/CIPET) or [www.cipet.gov.in](http://www.cipet.gov.in). All bids must be submitted through the online portal [www.tenderwizard.com/CIPET](http://www.tenderwizard.com/CIPET). The last date for online submission of tender-27/07/2020,3.00 pm. The bidders are also requested to submit a hard copy of the online technical bid duly signed and sealed to the Principal Director & Head, CIPET: IPT, HIL Colony, Pathalam, Udyogamandal P.O, Eloor, Kochi-683501 on or before 27/07/2020, 16.00 Hrs.
- The Tenderers have to digitally sign their bids before submitting the bids online thus the tenderers are advised to obtain Digital Certificates.
- Tender documents are available in our e-tendering website [www.tenderwizard.com/CIPET](http://www.tenderwizard.com/CIPET) which can be downloaded from 03/07/2020 to 27/07/2020.

4. The tenders are required to be submitted physically as per dates Indicated in key dates. The physical Envelope should contain all necessary documents as mentioned in “Essential documents for the Bid-I” by speed post / hand only to the CIPET: IPT, Kochi, India 683501.
5. Tender cost of Rs.1000/- (Non-refundable).
6. Tender which qualifies technically will only be considered for opening of Financial Bid, rest of the financial bid will be rejected. CIPET: IPT, Kochi reserves the right to reject any or all the tenders received without assigning any reason(s) thereof.

### **Technical Document**

Kindly submit physical copy of the documents to CIPET: IPT, Kochi office on or before 27/07/2020, 16.00 Hrs.

### **Online Upload Technical Document** (as mentioned in “Essential documents for the Bid-I”)

1. Contractor registration certificate with PWD or any other Government Agencies
2. Banker's Solvency Certificate.
3. Attested copies of Balance sheet & ITR of last 3 years.
4. Copy of PAN card and GST Registration Certificate.
5. General approach & methodology proposed.
6. Work performance & Bar chart.
7. Drawing.
8. Quality assurance plan.
9. EMD payment proof.
10. Any other documents.

### **Online Tender Schedule:**

Tender Release Date: 03/07/2020

Last date for online Bids submission: 27/07/2020, 3.00 p.m.

Tender opening date (Technical Bid): 27/07/2020, 4.00 p.m.

Tender opening date (Financial Bid): After the evaluation of technical bid.

### **For Technical Support**

<b>Name of the Service Provider: KEONICS</b>		
<b>Contact Person</b>	<b>Telephone/E-mail</b>	<b>Remarks</b>
Local Representative of KEONICS (Cochin): Mr. Tharanatha P	Mobile: 09746118519 E-mail: twhelpdesk213@gmail.com	For, Vendor registration/ DSC/any other issue Regarding e-Tender Process, please contact KEONICS as the details given in the previous columns

## **Essential Documents for the Bid - I**

The eligibility criteria (First Part) for participation in the tender are as under:

1. The contractor should possess his own pre-engineering building (PEB) components manufacturing facility and design capacity.
2. Contractors who have designed and supplied PEB's conforming to IS 800 shall only be considered.
3. The tenderer should have successfully completed at least two works in single contract of similar nature with Govt. / reputed institutions of not less than Rs.50 lakhs in the last five years. The current year completed part work can be considered as qualifying amount. They have to produce supportive documents in this respect from the employer.
4. The tenderer should submit Banker's solvency certificate to the extent of Rs.35 lakhs.
5. The tenderer has to submit attested copies of balance sheet certified by CA and copies of Income Tax returns for the last 3 years.
6. Certificate from individuals / architect or consultant for completed works shall not be accepted.
7. A copy of PAN card and GST registration certificate.

The first part will also include the following:

- i. The general approach and methodology proposed for carrying out the items covered in the scope of work should be submitted, including such detailed information as deemed relevant. Apart from the above, contractor shall give details and number of equipments, to be mobilized to complete work as per specifications, in stipulated time schedule.
- ii. Detailed overall work programme and a bar chart indicating the duration and timing of all major activities showing the desired milestones.
- iii. General arrangement drawing of all buildings showing all structural and non-structural elements mentioned in the scope.
- iv. List of codes of standards in addition to those mentioned in the specifications.
- v. The tenderers shall submit the quality assurance plan duly signed by authorized person.

Works include construction of PEB structure and both civil and electrical LT works. However, the professional contractor of PEB structure/ civil contractor are allowed to sub-contract the civil construction work/ PEB structure but they shall meet the eligibility criteria mentioned above. Detail of sub-contractor should be given at the time of e-tendering.

**Note:** The tenders for construction of PEB structure published in 03/07/2020 in The Hindu – All Kerala edition.

**Terms and conditions:**

1. The tenders without Earnest Money Deposit and documents required in Part-1 (Eligibility criteria) shall be rejected straightway. Late receipt of tenders shall not be entertained.
2. The EMD of unsuccessful tenderers in Technical competence will be returned within fortnight.
3. The EMD of successful tenderer who fail to enter with agreement, the security deposit will be forfeited as per terms of tenders.
4. The EMD of other unsuccessful tenderers of part II will be returned after finalization of the tender.
5. If the day of opening of the tender is declared holiday, the tender will be opened on the next working day.
6. The tenderers have to submit the no relation certificate to CIPET.
7. The cuttings and overwriting in tenders may be avoided as far as possible. If cuttings are unavoidable, the terms may be rewrite and attested.
8. For the above work, the contract i.e. civil work for construction of PEB structure and Designing, fabrication, supply and erection of PEB structure can be awarded to a single contractor or to two separate contractors.

This information is available on our website [www.cipet.gov.in](http://www.cipet.gov.in)

**Principal Director & Head**

CIPET: INSTITUTE OF PLASTICS TECHNOLOGY (IPT) - Kochi  
HIL Colony, Edayar Road,  
Pathalam, Udyogamandal P.O.,  
Kochi - 683501

**ESTIMATION OF COST FOR CIVIL WORKS IN CONSTRUCTION OF PEB SHED AT, CENTRAL  
INSTITUTE OF PLASTICS ENGINEERING AND TECHNOLOGY, KOCHI**

SI No	ITEM	QUANTITY	UNIT
	<b><u>Footing</u></b>		
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be leveled and neatly dressed. All kinds of soil	246.51	M <sup>3</sup>
2	Filling with contractors own earth ( excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge	326.00	M <sup>3</sup>
2a	Filling available existing earth ( excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge	RO	M <sup>3</sup>
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size) For Footing, Plinth beams	22.14	M <sup>3</sup>
3a	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size) for Floor PCC	46.96	M <sup>3</sup>
3b	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal	25.00	M <sup>3</sup>

	size) for Floor PCC in class rooms with smooth finish		
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level: 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) M25	38.56	M <sup>3</sup>
5	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	135	M <sup>2</sup>
6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	3856.00	kg
	<b><u>PLINTH BEAM</u></b>		
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level: 1:1.5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)	24.78	M <sup>3</sup>
8	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	195.00	M <sup>2</sup>
9	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	3717.00	kg
	<b><u>COLUMNS</u></b>		
10	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement 1:1:2 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) M25	20.47	M <sup>3</sup>
11	Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	225.00	M <sup>2</sup>

12	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete up to plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	4503.40	kg
	<b><u>BEAMS,SLABS,STAIRCASE,SUNSHADES AND LINTELS</u></b>		
13	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1:2 (1 cement : 1 coarse sand(zone-III) : 2 graded stone aggregate 20 mm nominal size)(M25)	80.60	M <sup>3</sup>
14	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	723.35	M <sup>2</sup>
15	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	12090.00	kg
	<b><u>FLOORING,DRAINAGE,SLABS etc..</u></b>		
16	Cement concrete flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	964.80	M <sup>2</sup>
17	Providing and laying in position machine batched and machine mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. Note:- Cement content considered in this item is @ 330 kg/cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level	91.23	M <sup>3</sup>



18	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level  Thermo - Mechanically Treated bars of grade Fe-500D or more	7298.40	kg
19	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	140.00	M <sup>2</sup>
	<b><u>MASONRY AND PLASTERING</u></b>		
20	Providing and laying cement blocks masonry with 100mm/150mm/230mm/300 mm thick Cement blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge.	92.42	M <sup>3</sup>
21	12 mm cement plaster of mix: 1:6 (1 cement : 6 fine sand)	1768.18	M <sup>2</sup>
22	White washing with white cement to give an even shade:  New work (three or more coats)	1768.18	M <sup>2</sup>
23	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	730.99	M <sup>2</sup>
	<b><u>DOORS, WINDOWS AND PARTITIONS</u></b>		
24	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	2000.00	kg

25	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T- iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer	7.20	M <sup>2</sup>
26	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces	13.20	M <sup>2</sup>
27	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.	650.00	Kg
28	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel works.	410.00	M <sup>2</sup>
29	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. Powder coated aluminium (minimum thickness of powder coating 50 micron)		
29 (a)	With float glass plane of 4.0 mm thickness	300.00	M <sup>2</sup>
29(b)	Providing and fixing 12 mm thick prelaminated particle board with decorative on both sides, flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural	170	M <sup>2</sup>

	drawings and directions of engineer-in-charge.		
29(c)	Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)	RO	M <sup>2</sup>
30	Providing and fixing tiles false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel section (Galvanized @ 120 g/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm c/c and cross "T" of size 24x25 mm made of 0.30 mm thick (Minimum) sheet, 1200 mm long spaced between main "T" at 600 mm c/c to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grid of 600x600 mm and wall angle of size 24x24x0.30 mm and laying false ceiling tiles of approved texture in the grid including required cutting/making. opening for severces like diffusers, grills, light fittings, fixtures, smoke detectors etc. main "T" runners to be suspended from ceiling using GI slotted cleates of size 27x37x25x1.60 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85x30x0.80 mm spaced at 1200 mm c/c along main "T", bottom exposed with of 24 mm of all "T"-sections shall be pre-painted with polyster paint, all complete for all heights as per specifications, drawings and as directed by engineer-in-charge.		
30 a	8 mm thick fully perforated calcium silicate board made with calcareous and siliceous materials reinforced with cellulose fibre manufactured though autoclaving process to give stable crystalline structure with minimum compressive strength 225kg/sq.cm, bending strength code description Unit Rate No. SUB HEAD : 12.0 ROOFING 221 100 kg/sq.cm, of size 595 x 595 mm, having perforation of dia. 10 mm with perforated area 18% with non-woven tissues on the back side, having and NRC (Noise reduction coefficient) of 0.85, with 50 mm thick rockwool of 48 kg/cum backing.	RO	M <sup>2</sup>
	<b><u>ROLLING SHUTTERS</u></b>		
31	Providing and fixing rolling shutters with gear system with	36.00	M <sup>2</sup>

	handle for operating rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.		
	<b><u>ROOFING WORK</u></b>		
32	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position, surface preparation and applying a priming coat of approved steel primer all types of structural steel works viz. columns, trusses, purlins, bracing, etc. made up of rolled & built up sections with moment or shear connections, shop/site fabricated including all accessories viz. Nuts, bolts, cleats, gussets, suspenders etc as per specification complete as directed by Engineer incharge. The rate to include for welding weights, site connection, nut & bolts. All structural steel shall be of TATA /SAIL / Jindal.	13714.00	kg
33	Painting with aluminium paint of approved brand and manufacture to give an even shade. (Make: Asian/ Berger/ Shalimar) Two or more coats on new work	920.00	M <sup>2</sup>
34	Providing and fixing precoated galvanized steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete as directed by Engineer-in-charge.  Flashings/ Aprons.( Up to 600 mm)	80.00	m

35	<b>ROOFING COLOUR COATED HI PROFILE SHEETING</b>  Supplying and fixing permanently colour coated hi rib profiled sheets (size, shape and pitch as approved by Engineer-in-charge). Hi profiled sheets shall be minimum 0.5 TCT galvalume or zincalume steel sheet having minimum yield strength of 550 Mpa, with a coating of mass of minimum 150 gsm (Aluminium Zinc alloy). The Galvalume steel sheet shall be finished with 20 microns of silicon modified polyester (SMP) colour coating (approved colour) over an epoxy primer coat of 5 micron. The sheet shall also have a back coat of 5 microns on reverse side over 5 microns primer coat. The sheet shall be fixed over the purlins with hexagonal head self drilling fasteners of 12 - 14 x 55 mm long including neoprene/EPDM washer on each crest of sheet. The maximum end lap of sheet shall be 150 mm and sealed with silicon sealant. The work shall include of all labour, equipments, materials, cost of consumables, fasteners, washers, scaffolding etc complete in all respect as directed by Engineer-in-charge. Payment would be made on the basis of roof area covered by the sheets.		
35(a)	Supply and erection of roof sheeting sheet having total coated thickness of 0.5mm (Make : TATA Bluescope / JSW)	890.00	M <sup>2</sup>
35(b)	Supply and erection of side wall sheeting having total coated thickness of 0.5mm (Make : TATA Bluescope / JSW)	296.00	M <sup>2</sup>
35(c)	Supplying and fixing Galvalume Ridge Sheet 0.5 mm thick standard profile roofing 550 MPa Yield strength including using self drilling screws, washer, labour, scaffolding all complete as per specifications and directions of Engineer-in-charge.	40.00	m
36	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 MPa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Gutter (600 mm over all girth)	80.00	m
37	Providing and fixing embossed polycarbonate sheet with UV stabilizer having atleast 60-80% transparency as per IS code in Opal White colour profiled to match the roof profile using 2mm thick sheet including labour, materials,	88.80	M <sup>2</sup>

	scaffolding etc. complete in all respect. (Make: Tuflite, Polaris)		
38	Supply and installation of wind driven turbine ventilators (mill finish) throat width 600mm, the turbine head and variable angle elbow is manufactured out of aluminum alloy having 0.71mm thick vanes, the shaft is made out of stainless steel, and the installation using stainless steel hardware and EPDM rubber washers and with double row ball-bearing system. SPEC: Rotation: Twin Sealed 6203ZZ/Twin Sealed 6201ZZ bearings with self lubricating to ensure frictionless rotation even at lowest wind velocity, 42 Vanes, Base Ring MOC (Mounting Ring): SS, Top plate MOC : SS 0.8mm thk, Bearing Type: SKF – 6001 ZZ & 6003 ZZ Permanently Lubricated & Sealed, Rivets: Aluminum Alloy with Washer, FRP base: 2 mm thick clear 1.020 mtr wide and 1.65 mtr long matching your sheet profile, Size: Turbine dia- 28" , Throat dia- 24" , Height-18". (Make: Hurricane, SVS ventillators, Horne)	6.00	No's
	<b><u>ELECTRICAL LT WORKS</u></b>		
39	Supplying and fixing Three phase 8 way MCB DB double shuttered. with 63A / 30 mA 4P ELCB as incomer and suitably rated SP MCBs – 12 Nos as outgoings for protection and control, giving connections including cable entry cum gland box as required.	2.00	Nos.
40	Supplying all materials and wiring for light and exhaust fan points using 1 sq.mm. 650V grade PVC insulated copper conductor single core stranded wires, including circuit mains and earth conductor of SWG No 14 bare copper continuously run as per IS through ISI grade medium gauge rigid PVC conduits concealed in wall/ slab etc. complete with necessary accessories, including supplying and fixing 6A modular type switch housed in a suitable factory made MS box with moduled front plate including earthing the box etc. complete as required.	130.00	Nos.
41	Supplying all materials and wiring for fan points with modular step regulator using 1 sq.mm. PVC insulated copper conductor single core stranded wires of 650V grade including circuit mains and earth conductor of SWG No.14 bare copper conductor continuously run as per IS through ISI medium grade rigid PVC conduits concealed in wall / slab etc. complete with necessary accessories, including supplying and fixing 6A modular type switch and	30.00	Nos.

	100W electronic fan regulator housed in a suitable factory made MS box with moduled front plate including earthing the box etc complete as required.		
42	supply and installation of TV power point using 1.5 sq.mm. PVC insulated Cu wire drawn through 20mm PVC conduit along with SWG No.14 cu. earth wire up to and including supply and fixing of 2 Nos. of pin sockets controlled by 2 Nos. of 6A switches mounted in a suitable metal box as per standards.	2.00	Nos.
43	Supply and installation of modular type coaxial TV socket mounted in a suitable factory built MS box with earthing facilities as per standards.	2.00	Nos.
44	Supply Wiring two run of the 1.5 Sq.mm. PVC insulated copper wire with suitable wire for earth through recessed 20mm dia. Rigid PVC pipe with bend elbow etc. for wiring switch board to switch board (including fixing of PVC conduits)	200.00	M
45	Supply and wiring two run of 2.5 sq.mm. insulated copper wire with suitable wire for earth through recesses 20mm dia Rigid PVC pipe with bend elbow etc. for circuit wiring from DB to switch board (including fixing of PVC conduits)	300.00	M
46	Supply and wiring two run of 4 sq.mm. insulated copper wire with suitable wire for earth through recesses 20mm dia Rigid PVC pipe with bend elbow etc. for circuit wiring (including fixing of PVC conduits)	100.00	M
47	Supplying all materials and wiring for 6A plug points in independent positions using 1.5 sq.mm PVC insulated copper conductor single core stranded wire including circuit mains and fixing 6A modular type shuttered plug socket (2 in 1) controlled by 6A switch with moduled front plate, housed in a suitable factory built MS box. Giving connections, earthing etc complete as required.	26.00	Nos.
48	Supply, wiring and installation of 20A AC points using 2 runs of 4 sq.mm. PVC insulated fine stranded copper wire drawn through 20mm ISI grade rigid PVC conduits along with 1 run of suitable copper wire all accessories including module plate, MCB DP switch etc. as required.	4.00	Nos.
49	Supply all materials and fixing of 3 pin 16/6A power points, fixing of standard modular type three pin unisocket controlled with one 16A SP switch.	26.00	Nos.

50	Supplying and laying of ISI grade rigid PVC conduits concealed in wall/slab etc complete with necessary accessories for telephone/cable TV/music system wiring. The rate includes chasing of wall/slab and plastering the chased portion as required.	150.00	M
51	Supply and fixing modular data/telephone socket on factory made MS box, Front plate giving connection etc as required.	4.00	Nos.
52	Supply and drawing of data cable	100.00	M
53	Supply and drawing of coaxial cable	100.00	M
54	Supply and drawing of telephone cable	100.00	M
	<b><u>EARTHING</u></b>		
55	Supply, erection testing and commissioning on continuous earthing conductors and earth pits as per the general specifications and as per IS 3043/87 with its latest provisions if any.		
55a	Supply and laying of all materials and providing 40mm dia 2.5 M long GI pipe earth station as per IS 3043/87 including excavation of earth in all classes of soil with funnel salt, charcoal etc. in all respects.	2.00	Nos.
55b	Copper wire No. 10 SWG	50.00	M
56	Supply of the following light fixtures, wall fans and ceiling fans complete with choke, HPF condenser, starters, control gear, connecting wire with LAMPS/TUBES/FANS, etc. complete as required.		
56 a	1 x 28W T-5 Tube FTL Box type light fixture with tube similar to Wipro WCF 12136 SGW or Philips	Nos.	100.00
56 b	Supply of LED High Bay light 80w, Philips Make Durabay Prime - BY225P LED100S CW NB FG PSU GR V1	Nos.	16.00
56 c	Supply of white colour ceiling fan with double ball bearings, accessories, connecting wire and other standard accessories including regulator. 1200mm Sweep, 3 blade ceiling fan.	Nos.	30.00
56 d	Almonard 24 Inch Air Circulator Heavy Duty Industrial Fan 600 mm 3 Blade Wall Fan	Nos.	22.00

(The above area mentioned is approximate only)



<b><u>MAKE OF MATERIALS FOR CIPET TOOL ROOM ELECTRICAL LT WORKS</u></b>		
<b>SI No</b>	<b>Description</b>	<b>Makes</b>
1	MCCB	ABB,LT
2	DB/MCB/RCCB/RCBO	Legrand, ABB
3	PVC Electrical Conduit and accessories with ISI	Balco, Konseal
4	PVC accessories with ISI	Precision, Asian, Balco
5	Modular type switch& socket, TV, Telephone & Computer Socket	Legrand-Myrius
6	Telephone Cable	Delton, Finolex
7	16A/20A metal clad plug & socket	Legrand
8	Telephone Connector	Krone
9	Wire	Finolex, RR Kabel

#### **Taxes:**

Goods and Service Taxes applicable as per the existing rate. The rates quoted above should be all inclusive.

#### **MINIMUM ELIGIBILITY CRITERIA:**

##### **(a) Experience**

The tenderers should have completed successfully at least 2 similar construction works during the last 5 years (preferably in Govt. or PSU organizations) each costing not less than Rs.50 Lakhs. Work order and completion certificate to be submitted.

##### **(b) Financial Turnover**

Average Financial Turnover of the tenderer over the last three financial years ending 31<sup>st</sup> March of the previous financial year shall not be less than 5 crores.

##### **(c) Capability for execution**

In house manufacturing facility, skilled labour and other machinery/tools, cranes etc. To execute the work in time bound manner. (90 days)

#### **ONE BID PER BIDDER:**

Each bidder shall submit only one bid. A bidder who submits or participates in more than one Bid will cause all the proposals with the Bidder's participation to be disqualified.

**COST OF BIDDING:**

The bidder shall bear all costs associated with the preparation and submission of his Bid, and the CIPET: IPT-Kochi will in no case be responsible and liable for those costs.

**SITE VISIT:**

The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the work site and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for execution of the Works. The costs of visiting the site shall be at the Bidders' own expense.

**CLARIFICATION OF THE BIDDING DOCUMENTS:**

The Tenderers are advised to examine the Tender Document carefully and if there be or appear to be any ambiguity or discrepancy in the documents, or any clarifications needed on the Tender Documents; these shall be referred to the Principal Director & Head, CIPET: IPT, Kochi and got it clarified well in advance. The date of submission of bids prescribed in the tender document should be strictly followed.

Principal Director & Head,  
CIPET: IPT, HIL Colony, Pathalam  
Udyogamandal P.O,  
Eloor,  
Kochi-683501  
Ph:- 0484 – 2547741 / 2547742  
Email: [kochi@cipet.gov.in](mailto:kochi@cipet.gov.in) , [cipetkochi@gmail.com](mailto:cipetkochi@gmail.com)

## **PRE-BID MEETING:**

No pre bid meeting will be held for this tender.

## **AMENDMENT OF BIDDING DOCUMENTS:**

Principal Director & Head, CIPET: IPT-Kochi shall have the right to omit or suspend certain items of work or revise or amend the Bid Documents prior to the due date of submission of the Bid by issuance of addendum/corrigendum. Any addendum / corrigendum thus issued shall be part of the tender documents. The addendum/corrigendum, if any, shall only be hosted in the e-tender portal as well as in the website of the CIPET as mentioned above. It is the responsibility of the Bidders to download such addendum/ corrigendum hosted in the website and submits the same duly signed along with the Bid. In order to afford the Bidders with reasonable time to take addendum into account, or for any other reason, the CIPET may, at its discretion, extend the due date for submission of Bid and bid extension notice shall be hoisted in the web site.

## **INSTRUCTIONS TO BIDDER**

1. The contractor shall make his own arrangements to draw water & power from source point (as provided by the owner) at his own cost on monthly chargeable basis
2. All signatures in tender paper shall be dated, & all the pages of all sections of tender documents shall be initialed at the lower right hand corner or signed wherever required in the tender papers by the Tenderer or by a person holding power of attorney authorizing him to sign on behalf of the Tenderer should sign before submission of tender
3. Rates to be in figures and words.
4. Corrections & Erasures: All corrections & alterations in the entries of tender paper will be signed with full signature by the Tenderer with date. No erasures or over writings are permissible.
5. Tenders submitted by Tenderers shall remain valid for acceptance for a period of 90 days from the date of opening of the tender.
6. No interest shall be paid by the owner on earnest money. The earnest money of the unsuccessful Tenderers will be refunded without any interest soon after the decision towards the work is taken or after the expiry of the validity period of the tender.
7. If the contractor fails to complete the work within the period he shall pay liquidated damages (Compensation for delay) to the owner, as stipulated in the general conditions of contract.
8. **Security deposit:** shall be deducted from the running bill at 5% of the gross value of work done. The Security deposit will be refunded on successful completion of the project and after the final bill payment
9. Stores to be issued: No material shall be issued by CIPET: IPT-KOCHI. Contractor has to arrange all materials, required for this work

10. The Contractor shall employ technically qualified site engineer and competent supervisors for the work shall be available (by turn) throughout the working hours to receive and comply with instructions of the Employer/Architects.
11. The Contractor shall comply with the provisions of all labour legislation for the time being in force and also enacted time to time. Any labour disputes should be taken care by contractor and CIPET will not be held responsible for any such labour disputes.
12. **ESCALATION:** The rate quoted shall be firm throughout the tenure of the contract (including extension of time if any granted) and will not be subject to any fluctuation due to increase in cost of materials, labor, GST etc., unless specifically provided elsewhere in these documents.

#### **PAYMENT TERMS:**

The payment will be released based on the running account bills preferred by the contractor. The payment will be based on actual measurements as certified by the architect and approved by the competent authority

#### **DEFECT LIABILITY PERIOD:**

Twelve months from the date of completion of work as certified by the architect.

#### **PERFORMANCE SECURITY:**

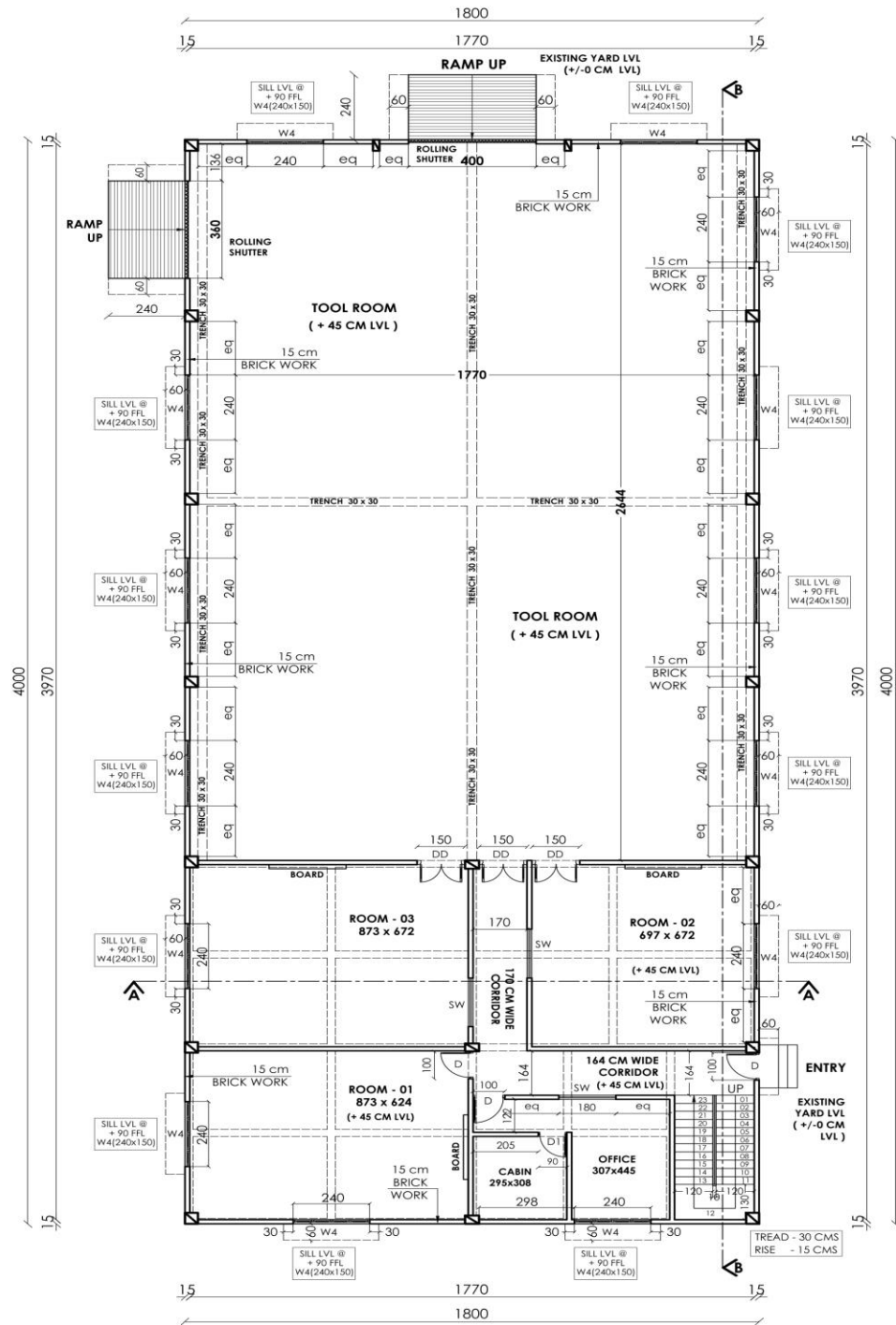
The successful bidder shall be required to deposit an amount equal to 5% of the tendered value of the work as performance guarantee in the form of an irrevocable bank guarantee bond of any scheduled bank or State Bank of India in accordance with the form prescribed or in cash or in the form of Govt. security, fixed deposit receipt etc., within 15 days of the issue of letter of acceptance. The Performance bank guarantee will be kept valid up to the completion of defect liability period.



#### **LIQUIDATED DAMAGES:**

If the contractor fails to complete the works within the time period(s) specified in the Contract, the CIPET shall, without prejudice to its other remedies under the contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5 percent of the contract price of the delayed work or unperformed services for each week of delay until actual performance, up to a maximum deduction of Max of 10% of the delayed works or services of the Contract price. Once the maximum is reached, CIPET may consider for termination of the contract and may initiate for process for blacklisting.

Kindly revert for any further clarifications, you may need, please feel free to contact Ms. Sreelakshmi. V.Menon, Project Engineer (Civil), Mob: 8606638695. E-mail: cipetkochi@gmail.com.

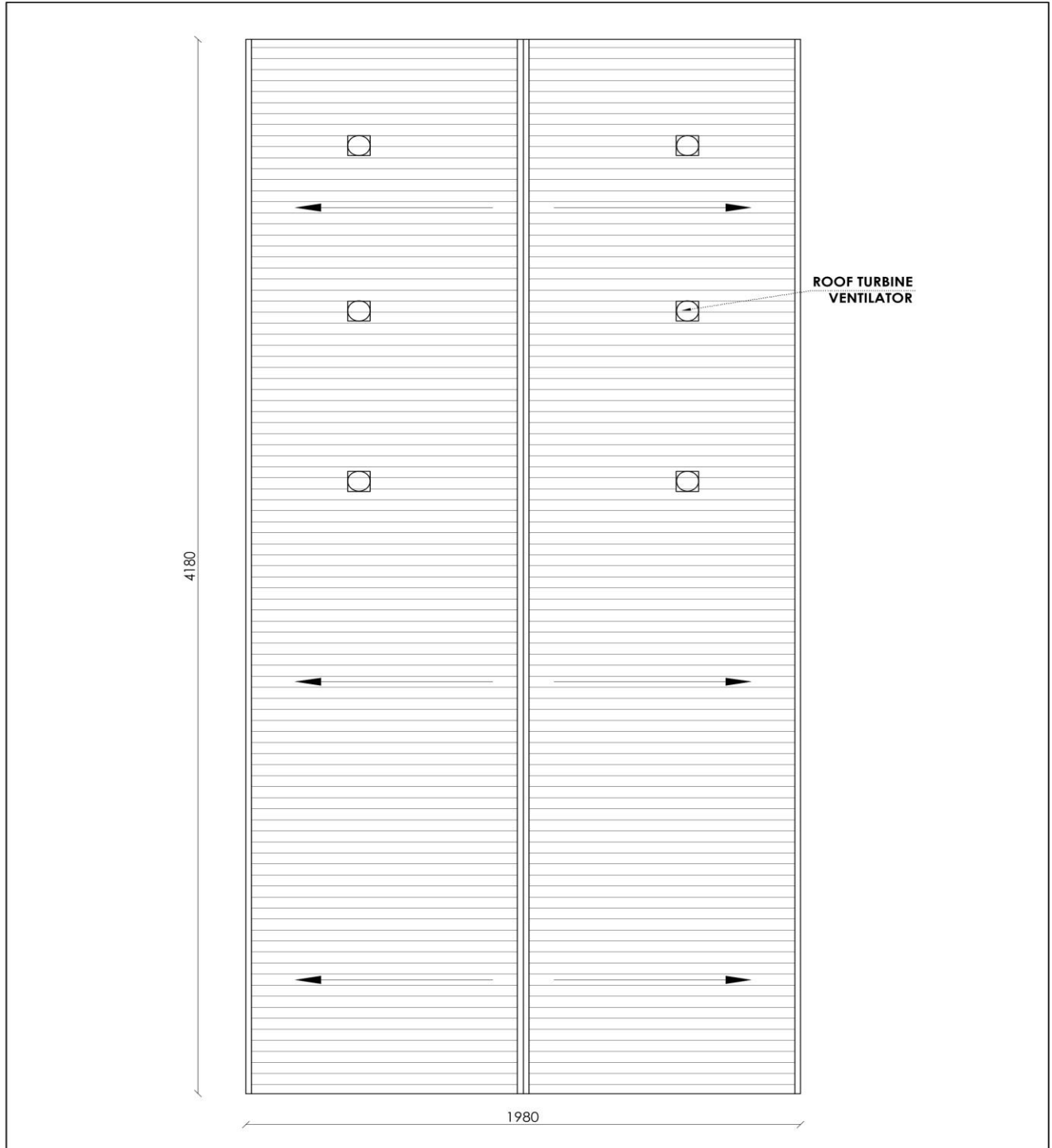
**Principal Director & Head**  
**CIPET: IPT, Kochi**





PROJECT  TOOL ROOM BUILDING FOR ' CIPET ' AT KALAMASSERY		W/D	TITLE: GROUND FLOOR PLAN		TENTATIVE DWG		ARCHITECTS :    CONCERNS ARCHITECTS  32/2977 A/6.2nd Floor, Near Catholic Syrian Bank, Thammanam Road,Ponnuruni, Cochin-19 E-mail : concernskoc@gmail.com Ph :0484-3261575, 080-41139745
DEALT  HARI GOVIND E K		DRAWN  SREEJITH A S		note: 1. All levels are finished levels. 2. All dimensions are in cms. 3. Follow only written dimensions. 4. Do not scale off the drawings. 5. Any discrepancy between drawings should be brought to the notice of the architect.			
		PROJECT CODE : CAM/903/EKM		SCALE:  N T S			
		SHEET NO : SH - 01					

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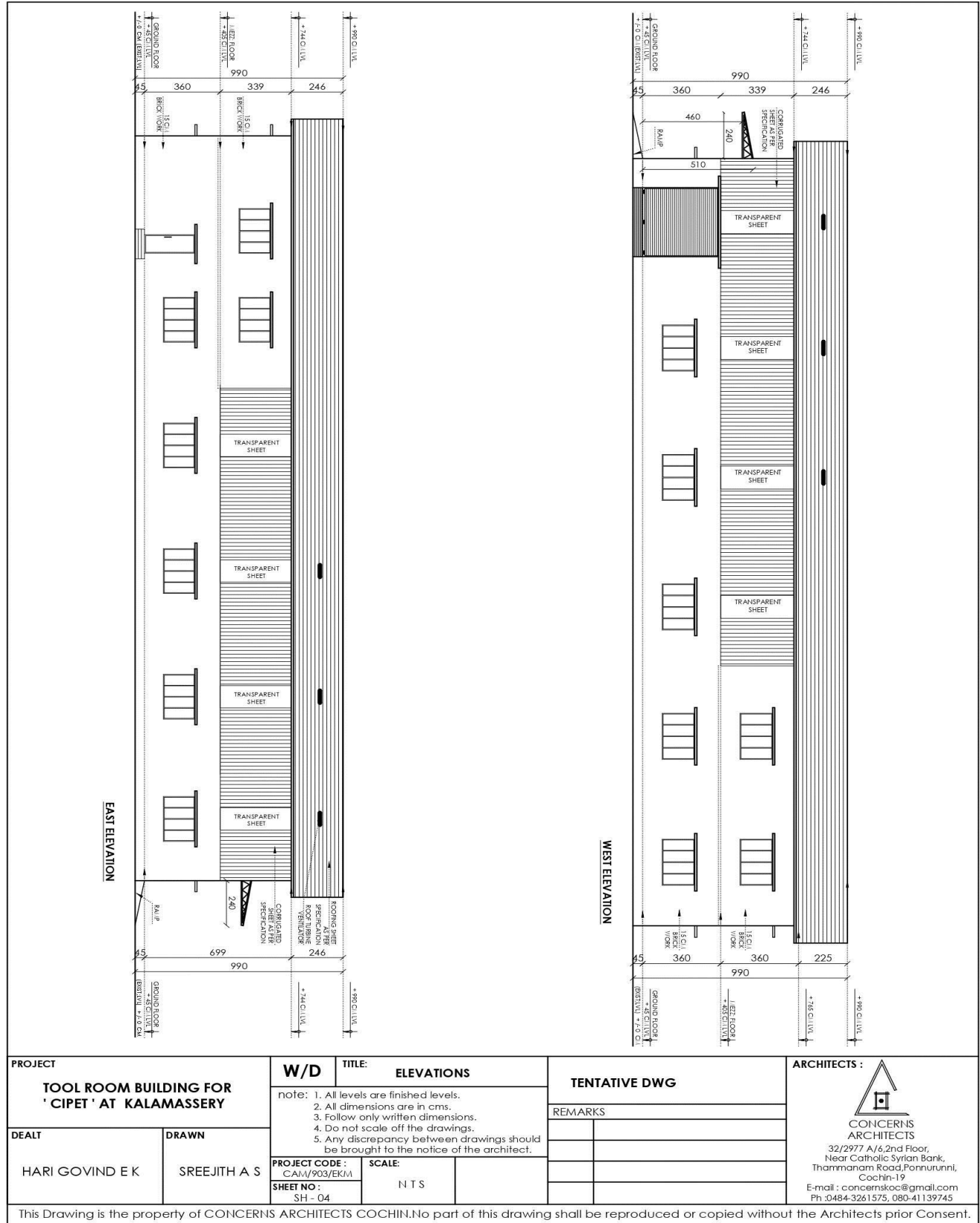


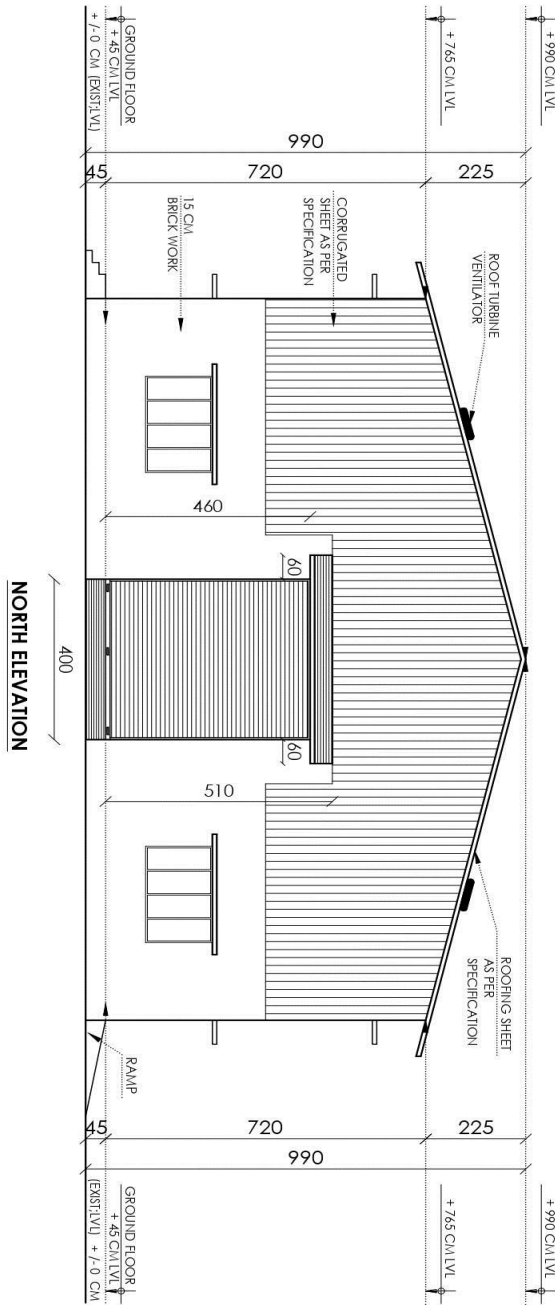


PROJECT  TOOL ROOM BUILDING FOR ' CIPET ' AT KALAMASSERY		W/D	TITLE:  ROOF PLAN		TENTATIVE DWG			ARCHITECTS :   CONCERNS ARCHITECTS  32/2977 A/6.2nd Floor, Near Catholic Syrian Bank, Thammanam Road,Ponnuruni, Cochin-19 E-mail : concernskoc@gmail.com Ph :0484-3261575, 080-41139745	
		note: 1. All levels are finished levels. 2. All dimensions are in cms. 3. Follow only written dimensions. 4. Do not scale off the drawings. 5. Any discrepancy between drawings should be brought to the notice of the architect.			REMARKS				
DEALT  HARI GOVIND E K	DRAWN  SREEJITH A S	PROJECT CODE : CAM/903/EKM	SCALE:  N T S						
		SHEET NO : SH - 03							

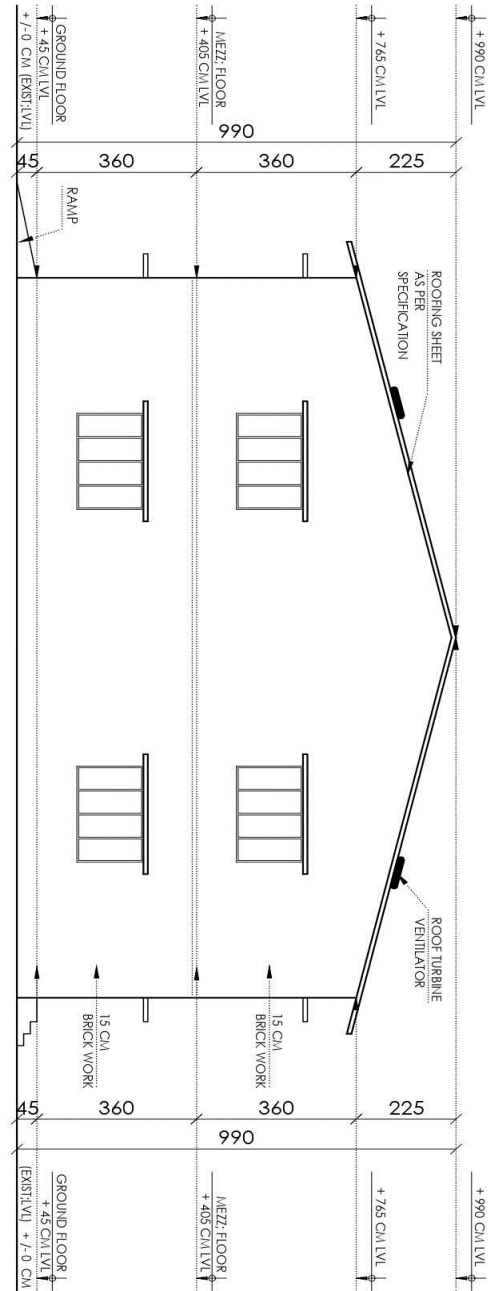
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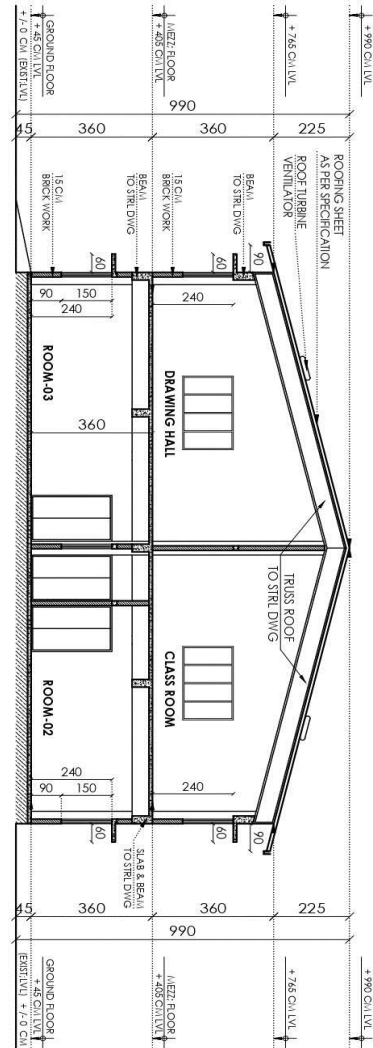


**SOUTH ELEVATION**

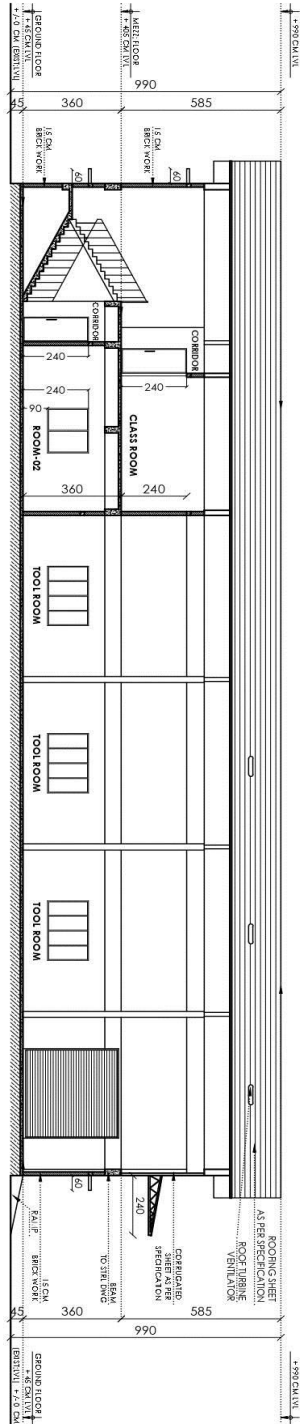


PROJECT		W/D	TITLE: ELEVATIONS		TENTATIVE DWG		<div>ARCHITECTS :</div> <div></div> <div>CONCERNS ARCHITECTS</div> <div>32/2977 A/6, 2nd Floor, Near Catholic Syrian Bank, Thammanam Road, Ponnururuni, Cochin-19</div> <div>E-mail : concernskoc@gmail.com Ph :0484-3261575, 080-41139745</div>
TOOL ROOM BUILDING FOR ' CIPET ' AT KALAMASSERY		note: 1. All levels are finished levels. 2. All dimensions are in cms. 3. Follow only written dimensions. 4. Do not scale off the drawings. 5. Any discrepancy between drawings should be brought to the notice of the architect;			REMARKS		
DEALT	DRAWN	PROJECT CODE :		SCALE:			
HARI GOVIND E K	SREEJITH A S	CAM/903/EKM		NTS			
		SHEET NO :					
		SH - 05					
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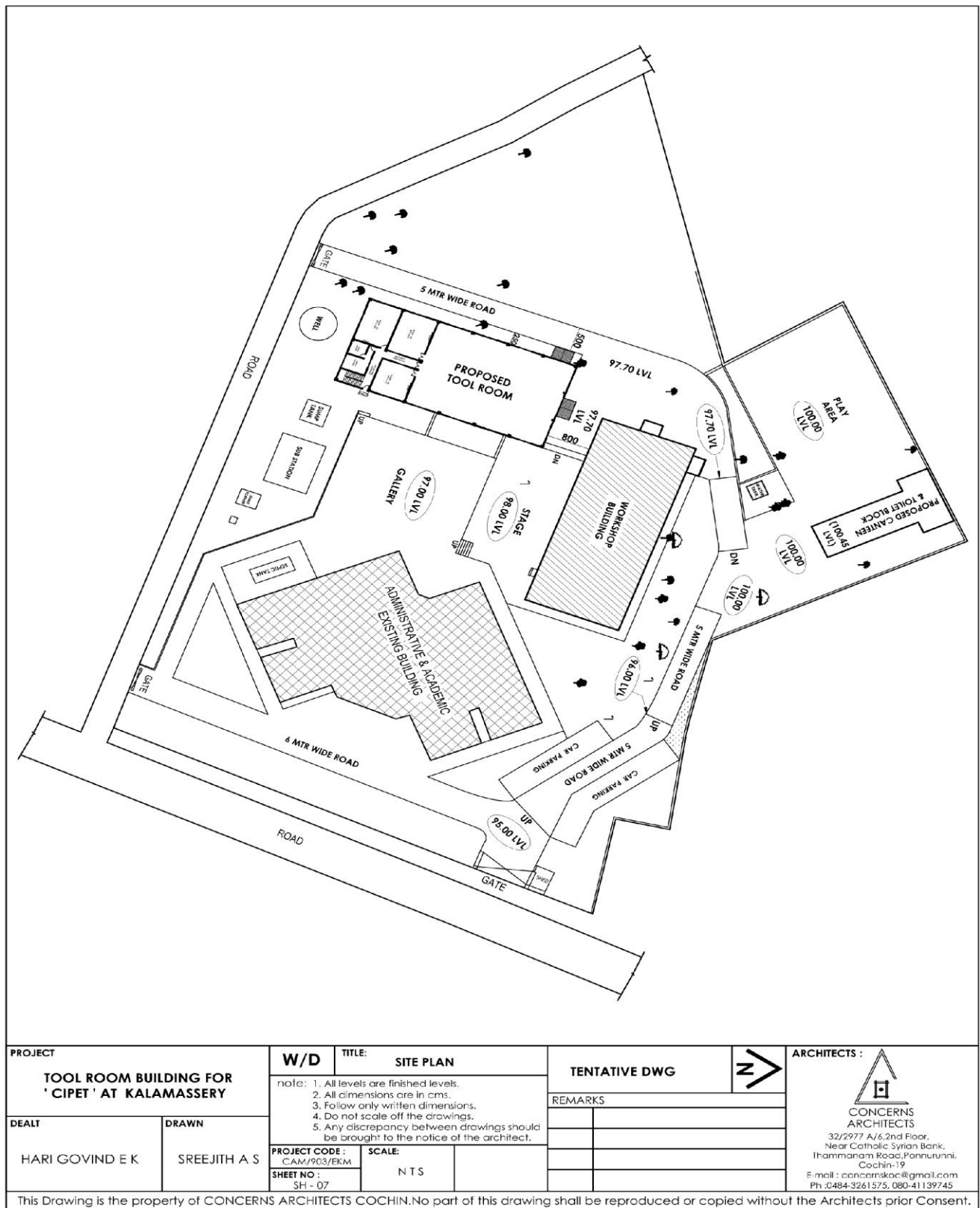
SECTION A-A

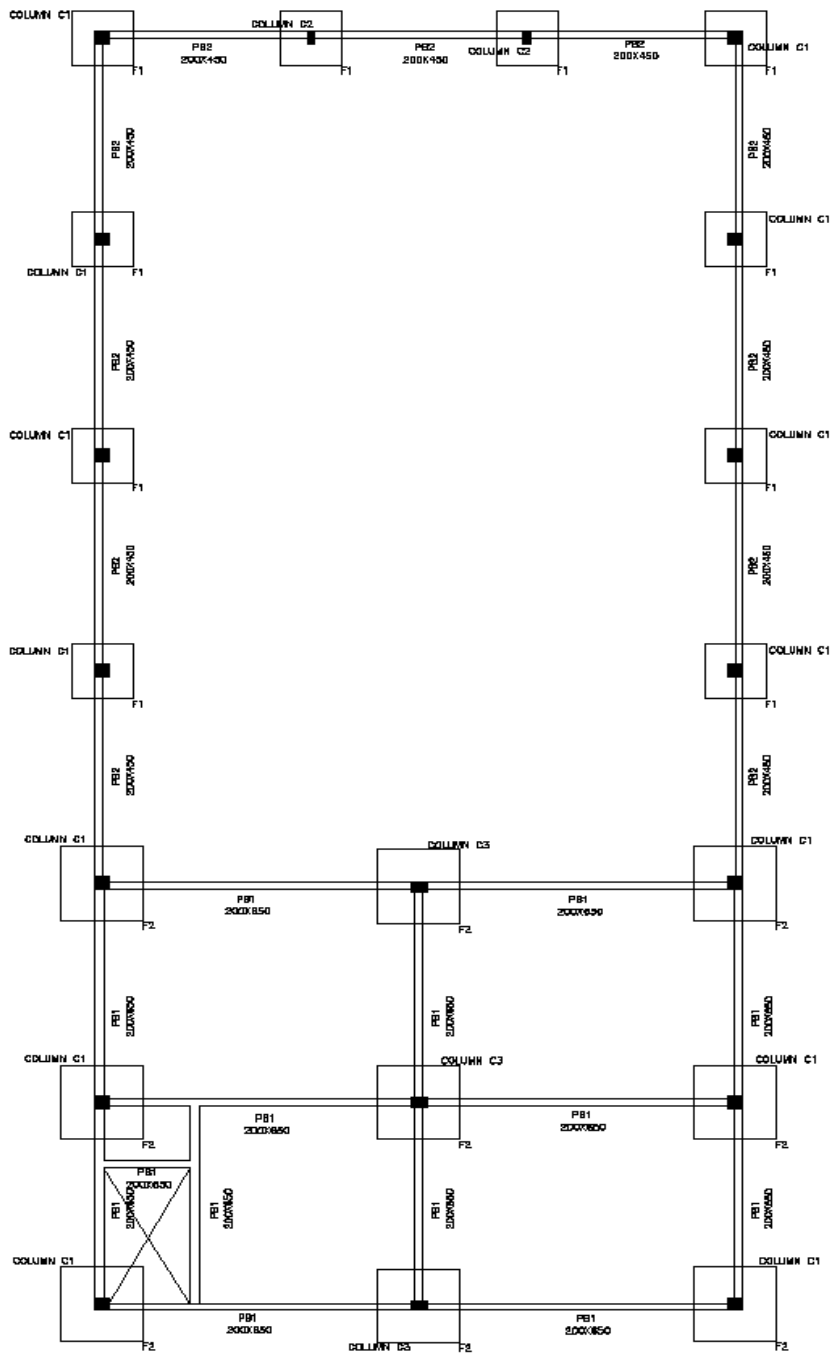


SECTION B-B

PROJECT  TOOL ROOM BUILDING FOR 'CIPET ' AT KALAMASSERY		W/D	TITLE:  SECTIONS		TENTATIVE DWG		ARCHITECTS :   CONCERNS ARCHITECTS  32/2977 A/6,2nd Floor, Near Catholic Syrian Bank, Thammanam Road,Ponnuruni, Cochin-19  E-mail : concernskoc@gmail.com Ph :0484-3261575, 080-41139745
			note: 1. All levels are finished levels. 2. All dimensions are in cms. 3. Follow only written dimensions. 4. Do not scale off the drawings. 5. Any discrepancy between drawings should be brought to the notice of the architect.				
DEALT	DRAWN						
HARI GOVIND E K	SREEJITH A S		PROJECT CODE : CAM/903/EKM	SCALE:			
			SHEET NO : SH - 06	N T S			

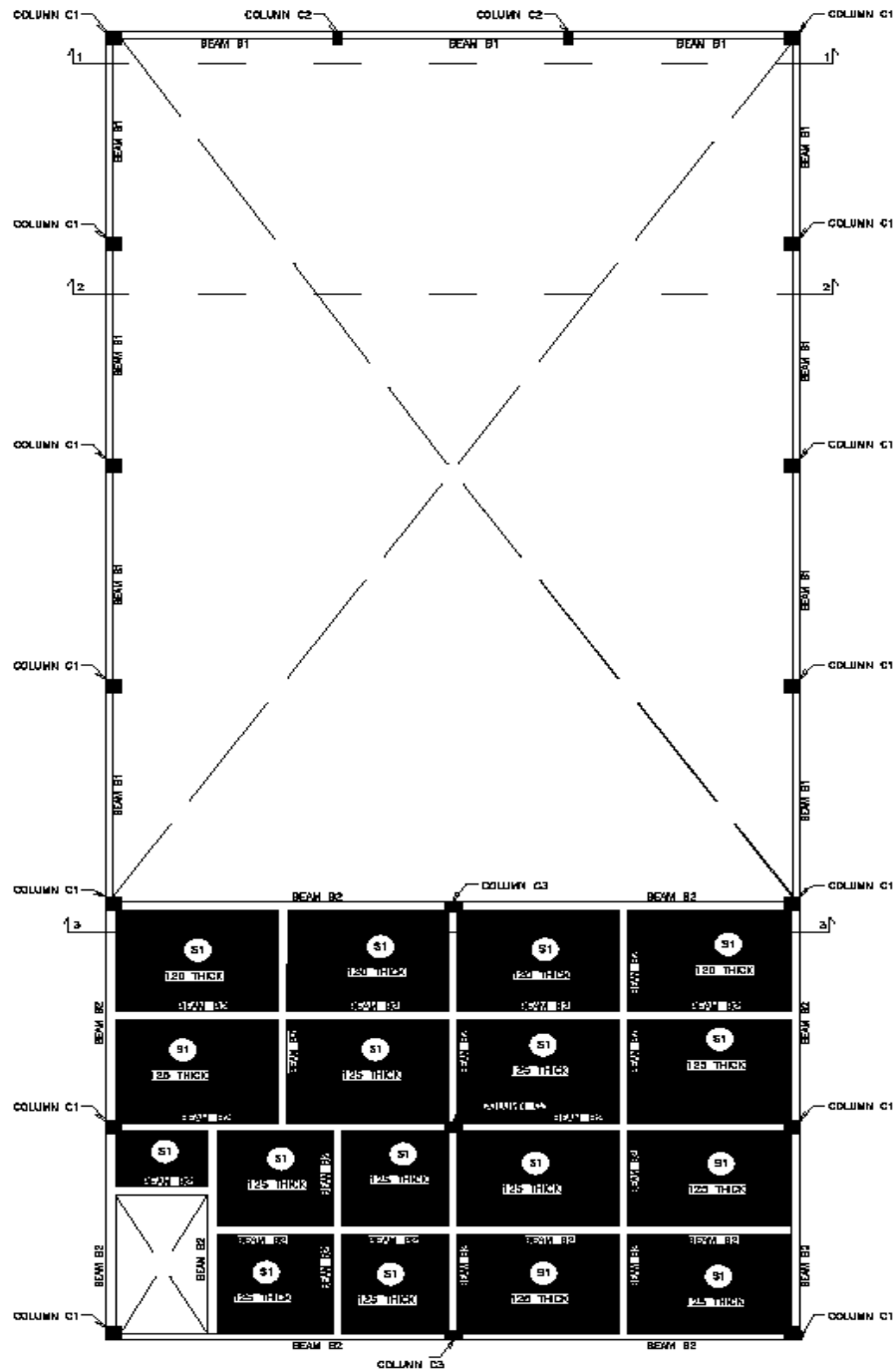
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### FOOTING LAYOUT

FOOTING F1 – 1700X1700X300  
FOOTING F2 – 2300X2300X450

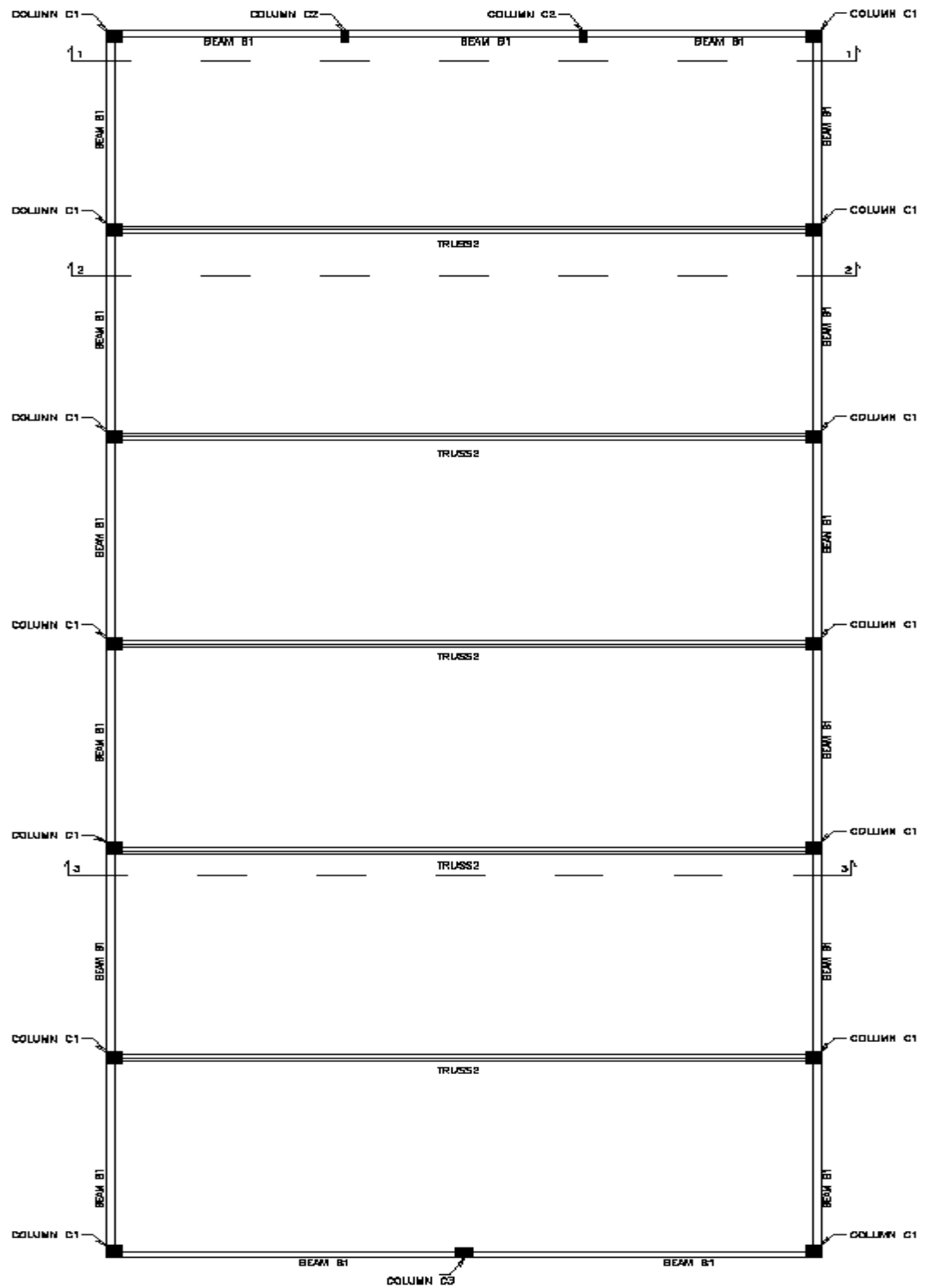


**BEAM LAYOUT @3.60LVL**

COLUMN C1– 400X400  
 COLUMN C2– 200X400  
 COLUMN C3– 300X450

BEAM B1– 200X450  
 BEAM B2– 250X650

SLAB S1– 125 THK



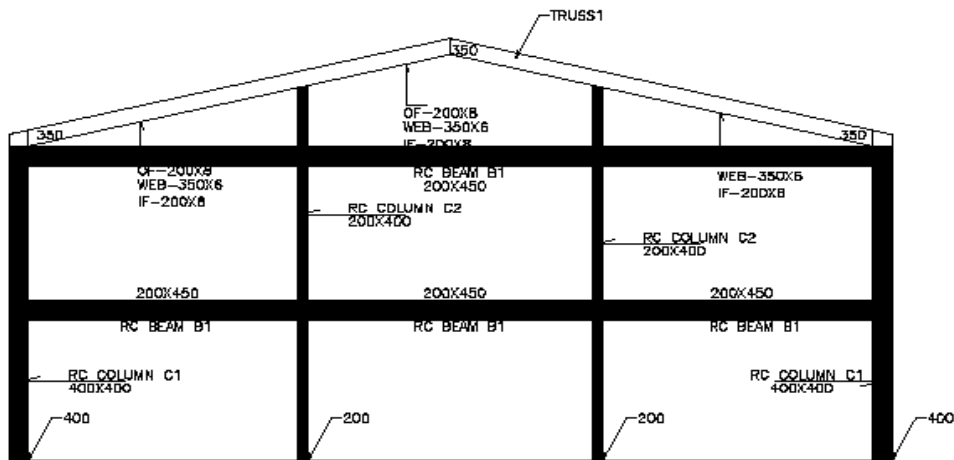
**BEAM LAYOUT @7.20LVL**

COLUMN C1	—	400X400
COLUMN C2	—	200X400
COLUMN C3	—	300X450

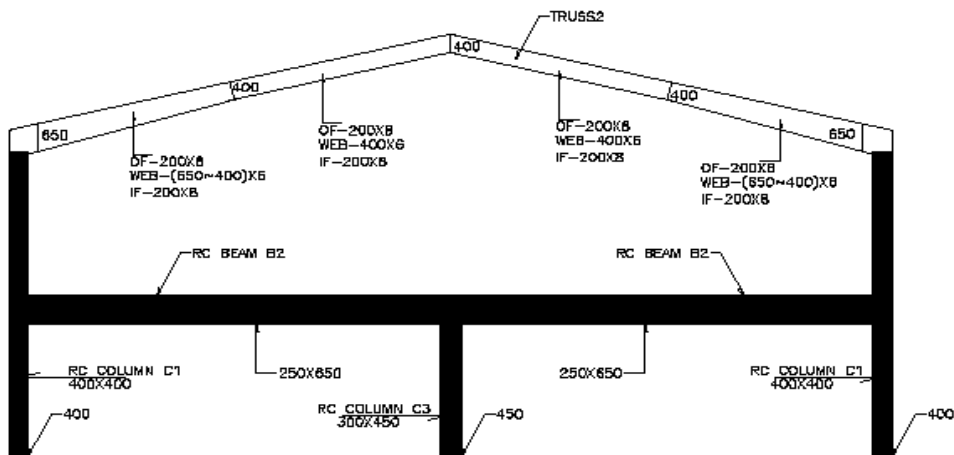
BEAM B1	—	200X450
BEAM B2	—	250X650



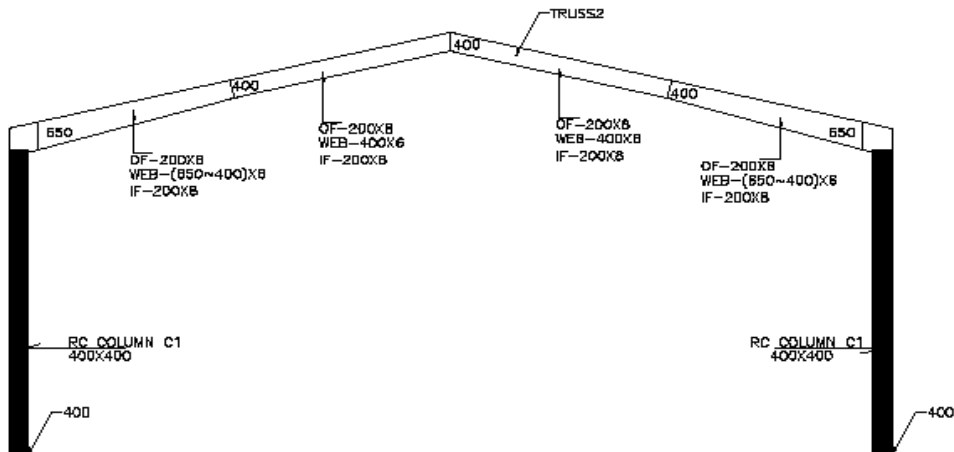




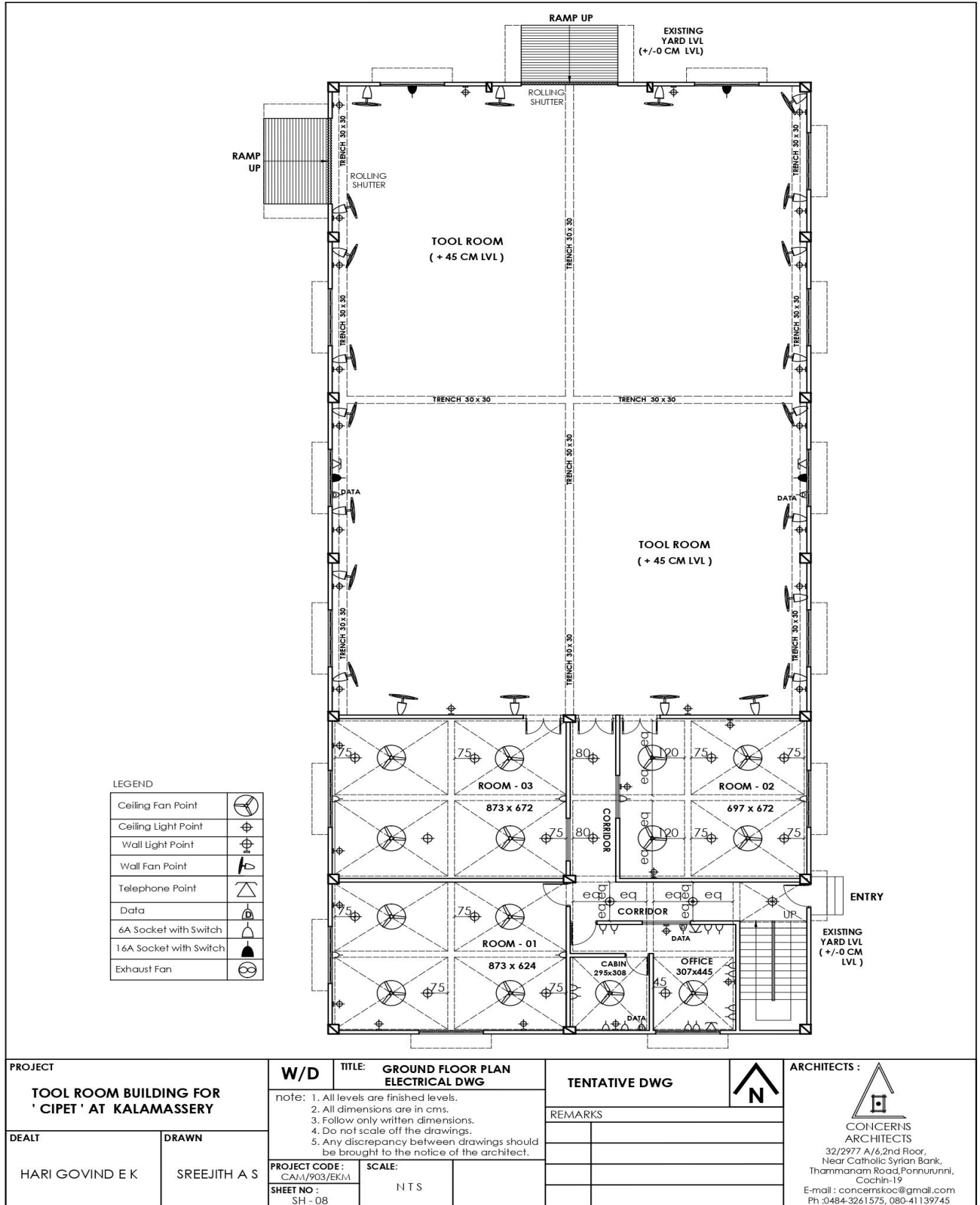
**SECTION 1-1**



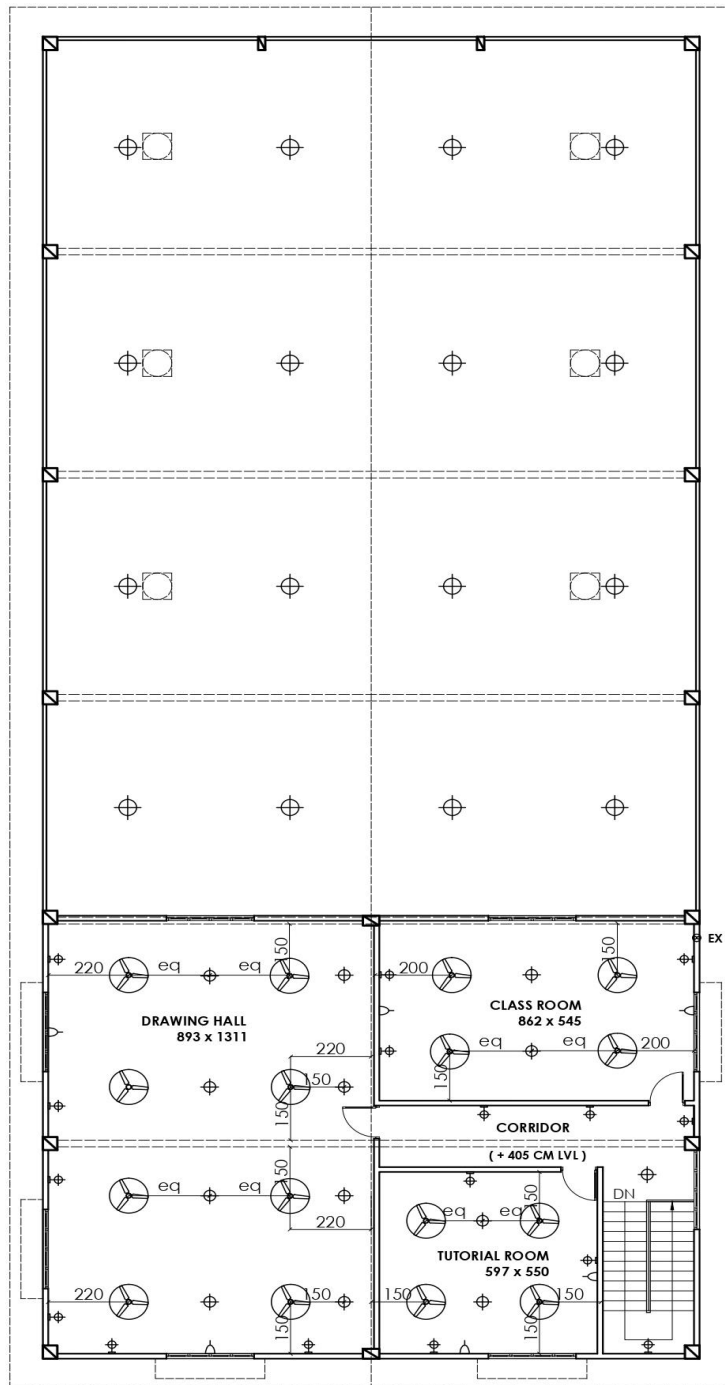
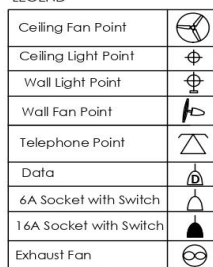
**SECTION 3-3**





**SECTION 2-2**



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PROJECT		W/D		TITLE: FIRST FLOOR PLAN ELECTRICAL DWG		TENTATIVE DWG				ARCHITECTS :	
TOOL ROOM BUILDING FOR ' CIPET ' AT KALAMASSERY		note: 1. All levels are finished levels. 2. All dimensions are in cms. 3. Follow only written dimensions. 4. Do not scale off the drawings. 5. Any discrepancy between drawings should be brought to the notice of the architect.				REMARKS				CONCERNIS ARCHITECTS  32/2977 A/6,2nd Floor, Near Catholic Syrian Bank, Thammamang Road,Ponnuruni, Cochin-11	
DEALT		DRAWN		PROJECT CODE: CAM/903/EKM		SCALE: N T S					
HARI GOVIND E K		SREEJITH A S		SHEET NO: SH - 09						E-mail : concernskoc@gmail.com Ph :0484-3261575, 080-41139745	

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